Product Range
Distribution
Machines & Tools
February 2006
Export

GEORG FISCHER
PIPING SYSTEMS

Product Range Piping Systems

Machines for Processing Plastic - Pipes

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MSA
Electrofusion Units

+GF+

GEORG FISCHER
PIPING SYSTEMS
+GF+

Tooling and Installation equipment
Electrofusion Units and Accessories

MSA units at a glance

Features	MSA 250	MSA 300	MSA 350	MSA 400
Temperature-dependent power control	●	●	●	●
Wide input voltage range (180 - 264 V)	●	●	●	●
Suitable for generator operation	●	●	●	●
Automatic fusion data input via barcode reader/scanner	●	●	●	●
For serial and long-time fusion	●	●	●	●
Washdown and dustproof (IP 65)	●	●	●	●
Maximum protection against electrical hazards, Protection class 1	●	●	●	●
Lightweight, robust aluminium housing	●	●	●	●
Sturdy transport box	●	●	●	●
Integrated active cooling	●	●	●	●
Manual entry of fusion time	●	●	●	●
Fusion time and energy display	●	●	●	●
Menu guidance in more than 24 languages		●	●	●
Programmable maintenance intervals		●	●	●
User guidance		●	●	●
Individual configuration		●	●	●
Pipe logbook software MSA WIN-WELD			●	●
Internal safety protocol storage			●	●
Fusion data recording			●	●
Memory card for 400 fusions				●
Complete traceability is possible for individual piping components (Traceability according to ISO 12176-4)				●

Technical data	MSA 250	MSA 300	MSA 350	MSA 400
Input voltage range	180 - 264 AC	180 - 264 AC	180 - 264 AC	180 - 264 AC
Frequency range	45 - 65 Hz	45 - 65 Hz	45 - 65 Hz	45 - 65 Hz
Current consumption	16 A	16 A	16 A	16 A
Power	3500 W	3500 W	3500 W	3500 W
Output voltage	8 - 42 V (48 V)	8 - 42 V (48 V)	8 - 42 V (48 V)	8 - 42 V (48 V)
Output current	0.5 - 90 A	0.5 - 90 A	0.5 - 90 A	0.5 - 90 A
Upstream safety cutout	16 A inert	16 A inert	16 A inert	16 A inert
Protection rating	IP 65	IP 65	IP 65	IP 65
Protection class	1	1	1	1
Housing	Aluminium	Aluminium	Aluminium	Aluminium
Integrated cooling	Yes	Yes	Yes	Yes
Connecting cables	3 m	3 m	3 m	3 m
Fusion cables	3 m	3 m	3 m	3 m
Weight (operative, incl. cable)	11.5 kg	11.5 kg	11.5 kg	11.5 kg
Measurements (W/H/D)	284/364/195	284/364/195	284/364/195	284/364/195
Processable barcodes	Code I 2/5 Code 128 C	Code I 2/5 Code 128 C	Code I 2/5 Code 128 C	Code I 2/5 Code 128 C
Working temperature range	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C
Automatic temperature compensation	Yes	Yes	Yes	Yes
Fusion current monitoring	Yes	Yes	Yes	Yes
Coil short-circuit recognition	Yes	Yes	Yes	Yes
Display	LED 7- Seg x 4 N	LCD graphic	LCD graphic	LCD graphic
Documentation of fusion data	-	-	Yes	Yes
Documentation of traceability data	-	-	-	Yes
Internal data storage	-	-	Yes, 750	Yes, 750
External data storage, Memory Card	-	-	Yes, 400	Yes, 400
Serial interface	-	-	Yes	Yes
Parallel interface	-	-	Optional	Optional
Protocol software MSA WIN-WELD	-	-	Yes	Yes
Data transfer cable	-	-	Optional	Optional
Memory card	-	-	Optional	Yes, 256 kB
Welder ID (can be configured as mandatory entry)	-	-	Yes	Yes
Manual fusion data entry	Yes	Yes	Yes	Yes
Languages	-	24	24	24
Elbow connector plug 4.0 mm	Yes	Yes	Yes	Yes
Barcode scanner	Optional	Optional	Optional	Optional
Transport box (aluminium/wood)	Yes	Yes	Yes	Yes
Recommended generator power	3.5 kVA	3.5 kVA	3.5 kVA	3.5 kVA
Standards: CE, EN 55014, EN 50081-1, EN 50082-1, EN 61000-3-3, EN 60335-1, EN 60335-2-45	Yes	Yes	Yes	Yes

Your Benefits

- maximum safety for the user
- individual configuration
- the right machine for every application
- reliable fusion process
- user guidance in 24 languages
- polyvalent system
- simple updating of software
- more rational working
- improved work quality
- long service life
- easy-to-follow user guidance menu
- easy to transport
- robust design
- less non-productive time
- easy fusion data processing
- user-friendly

WIN-WELD Software

The WIN-WELD Software Package is a valuable tool for documentation of your piping network or individual sections of it. It offers continuous documentation of fusion connections and the piping components used (fittings, pipes, mechanical parts) and the whole piping installation.

The following options are also available to you with the WIN-WELD Software Package:

- single and collective fusion protocols
- individual configuration of fusion devices
- welder ID according to ISO 12176-3
- fusion data processing and organisation
- importing fusion data in CSV format
- exporting data in EXCEL or ACCESS
- formatting MSA memory cards
- creating individual barcodes
- reading out of fusion data
- creation of a pipe book
- using the pipe book to calculate the volume of your piping network
- piping system documentation according to ISO 12176-4

Recording of fusion and/or Traceability data with the MSA 350, MSA 400

Saving of fusion and/or traceability protocols and also for updating new software or languages

Transferring to database and/or printing out of single or collective protocols

Downloading the fusion and traceability data, formatting the memory cards and configuring the individual fusion units

Order Information for MSA Devices

MSA 250
- With barcode reader (EU power plug), Code 799 350 407
- With barcode reader (CH power plug), Code 799 350 406
- With barcode scanner (EU power plug), Code 799 350 421

MSA 350
- With barcode reader (EU power plug), Code 799 350 391
- With barcode reader (CH power plug), Code 799 350 392
- With barcode scanner (EU power plug), Code 799 350 441

MSA 300
- With barcode reader (EU power plug), Code 799 350 375
- With barcode reader (CH power plug), Code 799 350 383
- With barcode scanner (EU power plug), Code 799 350 431

MSA 400
- With barcode reader (EU power plug), Code 799 350 376
- With barcode reader (CH power plug), Code 799 350 384
- With barcode scanner (EU power plug), Code 799 350 451

Order Information for MSA Accessories

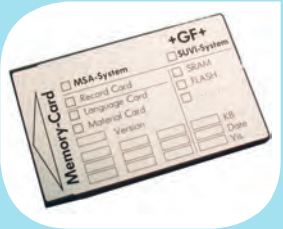
Barcode scanner
incl. pouch
MSA 250-MSA 400
Code 799 350 41

Barcode reader
MSA 250-MSA 400
Code 799 350 335
Case for reader
Code 799 350 337

Software PIPE WIN-WELD
Code 790 119 301
Software MSA WIN-WELD
Code 799 350 365

Transport box
MSA 250- MSA 400
Code 799 350 472

USB serial converter
USB-RS 232, length 0.4 m
only with PC data
transfer cable
Code 799 350 495



Memory card 256 KB
for 400 logs
Code 799 350 395

Data transfer cable PC
Serial RJ 45 - Serial RS 232
Length 2 m
Code 799 350 385

Printer cable
Serial RJ 45 - Parallel/
Centronics, Length 2.8 m
Code 799 350 387

Adapter
4.0 mm elbow, black, Code 799 350 340
4.7 mm straight, grey, Code 799 350 341
4.0 mm elbow, black, Code 799 350 461
4.7 mm straight, grey, Code 799 350 462

MSA 400
Traceability Electrofusion Unit

Professional electrofusion unit for traceability of piping system components from raw material to completed electrofusion joint (to ISO 12176). The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is equipped with barcode reader pen and a memory card (exchangeable data carrier). The unit is robust, light and easy to use. The menue has up to 24 different languages. Inclusive 1 transport case, 1 pair of angle adapter clips 4.0mm, operating instructions, configuration card and Software MSA WIN-WELD.

Technical Data

Ambient temperature	-10 °C - +45 °C
Mains voltage	180 V - 264 V AC
Mains frequency	45Hz - 65 Hz
Fusion voltage	8 - 42 (48) V AC
Fusion current	max. 80 A
Power	max. 3500 W
Protection	1 / IP 65
Mains cable	3 m
Fusion cable	3 m
Dimensions (WxHxD)	285 x 360 x 200 mm
Weight incl. cables	ca. 11,5 kg, light-weight aluminium housing
Display	LCD graphic, background light, contrast adjustment
Size display (WxH)	132 x 39 mm
Type size	8 mm
Languages	German, English, French, Chinese, Czech, Hungarian, Italian, Norwegian, Dutch, Polish, Rumanian, Slovakian, Portuguese, Danish, Spanish, Estonian, Finnish, Croatian, Lithuanian, Swedish, Slovenian, Turkish, Russian, Bulgarian
Warranty	24 months

Type	Code	kg	Description	
MSA 400	**799 350 376**	16,800	Standard, with barcode reader pen+transport case	
MSA 400	**799 350 451**	16,800	Plus, with barcode scanner+transport case	
MSA 400	**799 350 384**	16,800	Standard CH power plug, with barcode reader pen+transport case	

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Tooling and Installation equipment

MSA 350
Record Electrofusion Unit

Professional electrofusion unit for recording jointing data of electrofusion components as a basis for electronic joint recording. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is equipped with barcode reader pen, optional with barcode scanner. The unit is robust, light and easy to use. The menu has up to 24 different languages. Inclusive transport box, 1 pair of angle adapter clips 4.0 mm, operating instructions, configuration card and Software MSA WIN-WELD.
(for read out of fusion data are the Data transfer cable PC, Code 799 350 385 or the Memory card 256 kB, Code 799 350 395 required).

Technical Data

Ambient temperature	-10 °C - +45 °C
Mains voltage	180 V - 264 V AC
Mains frequency	45Hz - 65 Hz
Fusion voltage	8 - 42 (48) V AC
Fusion current	max. 80 A
Power	max. 3500 W
Protection	1 / IP 65
Mains cable	3 m
Fusion cable	3 m
Dimensions (WxHxD)	285 x 360 x 200 mm
Weight incl. cables	ca. 11,5 kg, light-weight aluminium housing
Display	LCD graphic, background light, contrast adjustment
Size display (WxH)	132 x 39 mm
Type size	8 mm
Languages	German, English, French, Chinese, Czech, Hungarian, Italian, Norwegian, Dutch, Polish, Rumanian, Slovakian, Portuguese, Danish, Spanish, Estonian, Finnish, Croatian, Lithuanian, Swedish, Slovenian, Turkish, Russian, Bulgarian
Warranty	24 months

Type	Code	kg	Description	
MSA 350	**799 350 391**	11,500	Standard, with barcode reader pen+transport case	
MSA 350	**799 350 441**	16,800	Plus, with barcode scanner+transport case	
MSA 350	**799 350 392**	16,800	Standard CH Power plug, with barcode reader+transport case	

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Tooling and Installation equipment

MSA 300
Automatic Electrofusion Unit

Automatic electrofusion unit with barcode reader pen, optional with barcode scanner. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is robust, light and easy to use. The menu has up to 24 different languages. Inclusive transport box, 1 pair of angle adapter clips 4.0 mm, operating instructions and configuration card.

Technical Data

Ambient temperature	-10 °C - +45 °C
Mains voltage	180 V - 264 V AC
Mains frequency	45Hz - 65 Hz
Fusion voltage	8 - 42 (48) V AC
Fusion current	max. 80 A
Power	max. 3500 W
Protection	1 / IP 65
Mains cable	3 m
Fusion cable	3 m
Dimensions (WxHxD)	285 x 360 x 200 mm
Weight incl. cables	ca. 11,5 kg, light-weight aluminium housing
Display	LCD graphic, background light, contrast adjustment
Size display (WxH)	132 x 39 mm
Type size	8 mm
Languages	German, English, French, Chinese, Czech, Hungarian, Italian, Norwegian, Dutch, Polish, Rumanian, Slovakian, Portuguese, Danish, Spanish, Estonian, Finnish, Croatian, Lithuanian, Swedish, Slovenian, Turkish, Russian, Bulgarian
Warranty	24 months

Type	Code	kg	Description	
MSA 300	**799 350 375**	16,800	Standard, with barcode reader pen+transport case	
MSA 300	**799 350 431**	16,800	Plus, with barcode scanner+transport case	
MSA 300	**799 350 383**	16,800	Standard CH Power plug, with barcode reader pen+transport case	

PF 2 51 306

Tooling and Installation equipment

MSA 250
Automatic Electrofusion Unit

Automatic electrofusion unit with barcode reader pen, optional with barcode scanner. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is robust, light and easy to use. Single push-button operation, display shows fusion time and energy consumed. Inclusive transport box, 1 pair of angle adapter clips 4.0 mm and operating instructions.

Technical Data

Ambient temperature	-10 °C - +45 °C
Mains voltage	180 V - 264 V AC
Mains frequency	45Hz - 65 Hz
Fusion voltage	8 - 42 (48) V AC
Fusion current	max. 80 A
Power	max. 3500 W
Protection	1 / IP 65
Mains cable	3 m
Fusion cable	3 m
Dimensions (WxHxD)	285 x 360 x 200 mm
Weight incl. cables	ca. 11,5 kg, light-weight aluminium housing
Display	LED 1 x 4 N, 7 Segments
Size display (WxH)	50 x 18 mm
Type size	14 mm
Warranty	24 months

Type	Code	kg	Description	
MSA 250	**799 350 407**	16,800	Standard, with barcode reader pen+transport case	
MSA 250	**799 350 421**	16,800	Plus, with barcode scanner+transport case	
MSA 250	**799 350 406**	16,800	Standard, with CH power adapter, barcode reader pen+transport case	

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Tooling and Installation equipment

MSA 210 Manual Electrofusion Unit

Neu

Monovalent electrofusion unit with easy manual entry of fusion time by the operator according to the fitting requirements. The unit can be used on the product range of +GF+ electrofusion fittings up to a nominal diameter of 500 mm SDR 17. Suitable for jointing in series, temperature excess protected. The unit stores the last fusion time and generates a consecutive fusion counter. A buzzer indicates the start and the end of the fusion cycle.

Technical Data

Ambient temperature	-10°C - +40°C
Mains voltage	180 V - 250 V AC
Mains frequency	45 Hz - 65 Hz
Fusion voltage	39,5 V
Internal Fuse	20 A
Power consumption	max. 2750 W
Protection	IP 65
Mains cable	4 m
Fusion cable	3 m
Connector	4,0 mm / 90
Dimensions (WxHxD)	270 x 480 x 150 mm
Weight incl. cables	ca. 21 kg
Display	LED 1 x 4 N, 7 segments
Size display	50 x 18 mm
Type size	14 mm
Warranty	12 months

Code	
790 128 001	

PF 2 51 306

Adapter

- Adapters for electrofusion units with 4 mm connectors. Compatible with electrofusion units MSA 200, MSA 250, MSA 300, MSA 350 and MSA 400.
- Scope of delivery: 1 pair (2 pieces). (As additional components. One pair of adapters are provided with all MSA 250, MSA 300, MSA 350 and MSA 400 control units).

Type	Code	kg	Description	
4,0 mm	**799 350 340**	0,055	Angle adapter, black	
4,7 mm	**799 350 341**	0,059	Angle adapter, grey	
4,0 mm	**799 350 461**	0,055	Adapter, black	
4,7 mm	**799 350 462**	0,055	Adapter, white	

Tooling and Installation equipment

Software MSA WIN WELD

General functions:

- Reading and management of fusion data
- Sort- and filter functions
- Issue single records, collected records
- Reading and formatting of memory cards
- Reading and management of traceability data, according ISO 12176-4
- Export functions for conversion to conventional data base files, Excel or Acces
- Installed languages: German, English, French, Italian, Dutch, Croatian
- Creating individual barcodes
- Individual configuration of fusion devices

- Professional software for analysis and data management of electrofusion data, traceability data and for configuration barcodes (Z functions). Compatibility with MSA 350 (fusion data) and MSA 400 (fusion and traceability data).
- The software is suitable for Windows ME/NT4/2000/XP.
- Scope of delivery: CD-ROM, installation guide (manuals and additional information on CD-ROM)

Code	kg	Description	
799 350 365	0,180	Software for MSA 350 and MSA 400	

PF 2 51 306

Software PIPE WIN WELD / SUVI WIN WELD

- Professional software for analysis and documentation of installed piping systems or of a defined part of it: Pipe book. With PIPE WIN WELD it is possible to create a complete electronic documentation of the installed pipes and pipe connection elements. The software works with the data bases of MSA WIN WELD and SUVI WIN WELD. The software makes it possible to work with data from other manufacturers (CSV module for data transfer).
- The software is suitable for Windows ME/NT4/2000/XP.
- Delivery: CD-ROM, USB hardlock (PIPE WIN-WELD, PIPE WIN-WELD CSV), installation guide (manuals and additional information on CD-ROM)

Type	Code	kg	Description	
PIPE CSV	**790 119 301**	0,180	Complete package incl. CSV module for data transfer, USB hardlock	
PIPE	**790 119 302**	0,180	Complete package, USB hardlock	
SUVI	**790 119 303**	0,180	Complete package	

PF 3 25 117

Cables and Data Carriers

- PC data transmission cable: to transfer fusion data directly to a PC.
- Printer transmission cable: serial/parallel interface adapter cable to provide data print-outs directly from a printer.
- Supplementary memory card: to be used as an exchangeable data carrier. A memory card is supplied with MSA 400 control units.

Type	Code	kg	Description	
MSA 350/MSA 400	**799 350 385**	0,095	Data transmission cable (PC connection)	
	799 350 387	0,042	Serial-/parallel interface adapter cable, serial RJ 45/Centronics 36 (printer connection)	
MSA 350/MSA 400	**799 350 395**	0,020	Memory card (record card 256 kB capacity for 400 Fusions protocols)	

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Tooling and Installation equipment

Serial /Parallel Interface Adaptor Cable

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Type	Code	kg	Description	
MSA 350/MSA 400	**799 350 387**	0,042	Serial-/parallel interface adapter cable, serial RJ 45/Centronics 36 (printer connection)	

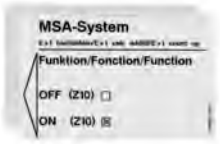
Tooling and Installation equipment

Memory Cards

PF 2 51 306

Type	Code	kg	Description	
MSA 350/MSA 400	**799 350 395**	0,020	Memory card (record card 256 kB capacity for 400 Fusions protocols)	

Z Function Cards for MSA 2000/3000



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Type	Code	kg	Pieces	Description	
MSA 2000/3000	**173 281 189**	0,494	100	Master card (Z3) coded	
MSA 2000/3000	**173 281 190**	0,460	100	Order card (Z4) uncoded	
MSA 2000/3000	**173 281 191**	0,005	100	Service card (Z6) uncoded	
MSA 2000/3000	**173 281 192**	0,005	100	Memory card (Z8) uncoded	
MSA 3000	**799 350 344**	0,500	100	Operator card settings (Z22) uncoded	
MSA 2000/3000	**173 281 247**	0,238	1	Identification card set	

Barcode Reader Pen

PF 2 51 306

- Compatible with MSA 250, MSA 300, MSA 350 and MSA 400 electrofusion control units. (As additional component. A bar code reader pen or scanner is provided with all MSA 250, MSA 300, MSA 350 and MSA 400 units.)

Code	kg	Description	
799 350 335	0,190	Barcode reader pen SUVI®400	
799 350 337	0,046	Pouch for reader pen 799 350 335	

Barcode Readers and Adapters
Barcode Scanner MSA Plus

PF 2 51 306

- Robust, handy barcode scanner with a high reading performance made for the construction site. Quick, safe and professional! Compatible with MSA 250, MSA 300, MSA 350 and MSA 400 electrofusion control units.
- Scope of delivery: Barcode scanner, pouch, instructions. (As additional component. A bar code reader pen or scanner is provided with all MSA 250, MSA 300, MSA 350 and MSA 400 units).

Code	kg	Description	
799 350 419	0,350	Barcode scanner	

Tooling and Installation equipment

Tools for preparing pipe surfaces

PF 3 25 879

Rotary Peeler RS

This innovative Rotary Peeler RS is designed to use for universal peeling at the pipe endfor electrofusion couplings, tees and elbows and as well as for electrofusion saddles. Suitable for peeling of pipes made out of PE80, PE100, PEX, PP.
Feature and your advantage:
Spring loaded peeling blade: Independent peeling quality of pipe ovality or tolerances
Pivoted mounted peeling blade: To compensate the shape of coiled pipe
Optimized cutting geometry: Defined chip thickness with cutting width overlap
One tool per dimension: Minimized swivel radius for peeling in narrow locations
Divisible tool: Peeling for saddles with the same tool
Peeling length: No limitation of peeling length
Guidance rolls: 3 point support for dimensional optimized cutting feed, time saving
Guidance rolls with smooth surface: No damage of pipe surface, no dirty guidance rolls
Time saving: Tool is always ready to use, it can be used for the next peeling without setting the peeling blade back in its origin position
Your advantage: Time saving and highest repeatable peeling quality at smallest rotation radius. No operator errors possible for change of dimension.
Included: 1 x Rotary Peeler RS, Transport case, Operating manual, Spare parts list

Article	d [mm]	Code	kg	
RS 40	40	**790 136 001**	1,250	
RS 50	50	**790 136 002**	1,250	
RS 63	63	**790 136 003**	1,250	
RS 75	75	**790 136 004**	1,450	
RS 90	90	**790 136 005**	1,450	
RS 110	110	**790 136 006**	1,450	
RS 125	125	**790 136 007**	1,650	
RS 140	140	**790 136 008**	1,650	
RS 160	160	**790 136 009**	1,650	
RS 180	180	**790 136 010**	1,850	
RS 200	200	**790 136 011**	1,850	
RS 225	225	**790 136 012**	1,850	
RS 250	250	**790 136 013**	2,150	
RS 280	280	**790 136 014**	2,150	
RS 315	315	**790 136 015**	2,150	

Replacement blade to Rotary Peeler RS

d-d [mm]	Code	kg	
40 - 315	**790 136 112**	0,006	

PF 3 25 118

Tooling and Installation equipment

PF 3 25 879

Transport cases for Rotary Peeler RS

Neu

- Included in the scope of delivery of the Rotary Peeler RS

Article	Description	Dimension	Code
RSTC 40-110	for RS 40-RS 110	326x222x116 mm	**790 136 211**
RSTC 125-160	for RS 125-RS 160	437x395x116 mm	**790 136 212**
RSTC 180-225	for RS 180-RS 225	450x360x132 mm	**790 136 213**
RSTC 250-315	for RS 250-RS 315	566x435x156 mm	**790 136 214**

9 300 725

Peeling Tool PT 1 E

PF 2 51 305

- The rotating Peeling Tool PT 1 E is suitable for preparing pipe ends with diameters d 20 - 90 mm (when installing electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, P
- Scope of delivery: 1 basic tool in a plastic carrying case, without pipe inserts. The case has sufficient space for approximately 6 pipe inserts.

d-d [mm]	Code	kg	Description
20 - 90	**799 150 382**	3,400	Basic Tool PT 1 E

9 300 725

Pipe Inserts for Peeling Tool PT 1 E

PF 2 51 305

d [mm]	Inch	Code	kg	Description
20	2	**799 300 739**	0,220	Pipe Insert SDR 11
20	3	**799 300 741**	0,220	Pipe Insert SDR 7
25	2	**799 300 740**	0,230	Pipe Insert SDR 11
25	3	**799 300 742**	0,230	Pipe Insert SDR 9
32	3	**799 300 743**	0,230	Pipe Insert SDR 11
40	4	**799 300 744**	0,230	Pipe Insert SDR 11
50	5	**799 300 745**	0,350	Pipe Insert SDR 11
63	4	**799 300 725**	0,475	Pipe Insert SDR 17
63	6	**799 300 746**	0,475	Pipe Insert SDR 11
75	5	**799 300 727**	0,601	Pipe Insert SDR 17
75	7	**799 300 747**	0,601	Pipe Insert SDR 11
90	5	**799 300 748**	0,834	Pipe Insert SDR 17
90	8	**799 300 749**	0,220	Pipe Insert SDR 11

Accessories for Peeling Tool PT 1 E

PF 2 51 305

- Replacement blade.

d-d [mm]	Piece	Code	kg	Description
20 - 90	1	**799 150 383**	0,150	Replacement blade, 1 piece

9 300 750

Peeling Tool PT 2

PF 2 51 305

- The rotating Peeling Tools PT 2 are suitable for preparing pipe ends (when installing electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX pipes.
- Scope of delivery: 1 tool (size 1, 2 or 3) in a case (size 1 in aluminium, size 2 and 3 in plastic).

d-d [mm]	Code	kg	Description	
90 - 250	**799 300 753**	5,100	Size 1, peeling length 140 mm	
110 - 400	**799 300 755**	7,320	Size 2, peeling length 150 mm	
110 - 500	**799 300 756**	11,000	Size 3, peeling length 175 mm	

Tooling and Installation equipment

Spare Parts for PT 2 Peeling Tool

- Firm metal knife usable on four sides

d-d [mm]	Piece	Code	kg	Description	
90 - 500	1	**799 150 355**	0,008	Replacement blade, 1 piece	
90 - 500	1	**799 150 321**	0,100	Tool holder	

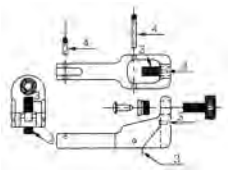
PF 2 51 305

Repair kit spindles for peeling tool PT 2

- Comprising 1 main spindle, 1 fixing bolt, 1 end plate, 2 rollers and 1 spacing disk

d-d [mm]	Code	kg	
90 - 250	**799 150 360**	1,000	
110 - 400	**799 150 361**	0,420	
110 - 500	**799 150 362**	1,000	

PF 2 51 305

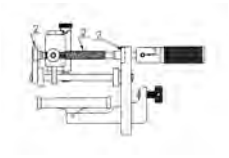


Repair kit screws and springs for peeling tool PT 2

- Comprising 1 assembly screw long, 1 clamping screw, 1 handle, 1 srew for flat spring, 1 screw for cutting plate, 1 nut for feed, 1 flat spring, 1 spring for rapid adjustment and 1 clamping spring

d-d [mm]	Code	kg	
90 - 500	**799 150 369**	0,300	

PF 2 51 305

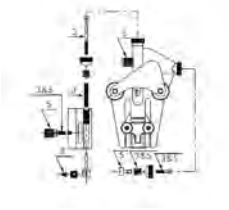


Repair kit feed for peeling tool PT 2

- Comprising 1 carriage bolt, 1 guide unit and 1 guide end plate

d-d [mm]	Code	kg	
90 - 250	**799 150 363**	0,500	
110 - 400	**799 150 364**	0,346	
110 - 500	**799 150 365**	0,500	

PF 2 51 305



Repair kit tool holder for peeling tool PT 2

- **Complete comprising:**
- 1 feed nut,
- 1 nut for feed,
- 1 spring for rapid adjustment,
- 1 washer
- 1 fixing screw

d-d [mm]	Code	kg	
90 - 500	**799 150 370**	0,069	

PF 2 51 305

Tooling and Installation equipment

9 300 700

Peeling Tool PT 4

- The easy-to-use peeling tools PT 4 are suitable for preparing pipe ends (when installing electrofusion couplers and fittings). The tools ensure a constant peeling quality on the whole peeled area and are suitable for PE80 and PE100 pipes. There is no tool service ararngement for the PT 4.
- Scope of delivery: 1 tool with exchangeable blade (4 cutting surfaces).

d [mm]	e [mm]	Code	kg	Description	
20	1.9	**799 300 704**	0,271	Pipe Insert SDR 11	
20	3.0	**799 300 705**	0,255	Pipe Insert SDR 7	
25	2.3	**799 300 706**	0,308	Pipe Insert SDR 11	
25	3.0	**799 300 707**	0,290	Pipe Insert SDR 9	
32	3.0	**799 300 708**	0,340	Pipe Insert SDR 11	
40	3.7	**799 300 709**	0,380	Pipe Insert SDR 11	
50	4.6	**799 300 710**	0,436	Pipe Insert SDR 11	
63	5.8	**799 300 711**	0,540	Pipe Insert SDR 11	

PF 2 51 305

9 300 700

Accessories for Peeling Tool PT 4

- Replacement blade.

d-d [mm]	Piece	Code	kg	Description	
20 - 63	1	**799 150 275**	0,006	Replacement blade with 4 cutting surfaces	

PF 2 51 305

Peeling Tool RTC-710

The peeling tool RTC-710 is suitable to prepare pipe ends in big dimensions (d 355-710 mm). The tool ensures a constant peeling quality on the complete peeling surface of max. 530 mm length and is suitable for PE 80 and PE 100 pipes.

Scope of delivery: 1 Scraper arm, 1 Self-centering chuck base, 2 Aluminium transport cases, 1 screwdriver, 1 spare blade, 1 span cleaning knife, 1 accessories bag.

d-d [mm]	Code	kg	Description	
355 - 710	**799 300 757**	16,000	max. working-range 530 mm	

PF 2 51 305

9 198 033

Hand Scraper

- The Hand Scraper can be used to prepare the fusion zone on PE80 pipes.

Code	kg	Description	
799 198 094	0,100	with long handle	
799 198 033	0,100		

PF 2 51 305

Tooling and Installation equipment

Clamps and installation aids

PF 2 51 336

Multiple use Assembly Tool Branch fitting d140mm

- Only to be used with Branch Fitting d140mm
- Delivered as complete Kit including screws and belt

d [mm]	Code	kg	
140	**193 281 027**	0,740	

9 350 358

Swivel Clamp

- The Swivel Clamp centralises pipes with dimensions from d 63 - 180 mm automatically. Suitable for coupler connections as well as reductions and bends. The 15° adjustment makes an exact positioning from 15° to 90° possible.

PF 2 51 305

d-d [mm]	Code	kg	
63 - 180	**799 350 358**	18,000	

Tooling and Installation equipment

9 301 475

Double Clamp

- The user-friendly Double Clamps are suitable for coupler connections. They are quickly and easily put into position and prevent pullout and pipe movements during the fusion time and cooling time.
- Scope of delivery: 1 tool consisting of 1 beam (compact), 2 vee-clamps complete with ratchet and belt.

d-d [mm]	Code	kg
63 - 125	**799 301 484**	2,795
110 - 225	**799 301 486**	10,000
225 - 500	**799 301 488**	15,000

PF 2 51 305

9 301 450

Quadruple Clamp

- The professional Quadruple Clamps are suitable for coupler connections. They are quickly and easily put into position and ensure a stress-free fusion. They prevent pullout and pipe movements during the fusion and cooling times.
- Recommended for difficult site conditions with large installation-induced stresses.
- Scope of delivery: 1 tool consisting of 1 beam (long), 4 vee-clamps complete with ratchet and belt.

d-d [mm]	Code	kg
63 - 125	**799 301 459**	6,900
110 - 225	**799 301 461**	19,000
225 - 500	**799 301 463**	28,500

PF 2 51 305

9 301 525

Twin Clamp

- The easy-to-use Twin Clamp is suitable for coupler connections on straight or coiled pipe. The clamps prevent pullout and pipe movements during the fusion and cooling time.
- Scope of delivery: 1 complete tool.

d [mm]	Code	kg
20	**799 301 536**	0,498
25	**799 301 537**	0,471
32	**799 301 538**	0,756
40	**799 301 539**	0,876
50	**799 301 540**	1,167
63	**799 301 541**	1,438

PF 2 51 305

Tooling and Installation equipment

9 301 575

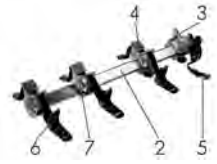
Multi Clamp

- This tool is quick and easy to use and is suitable for straight forward connections to straight lengths of pipe or saddle branch outlets with electrofusion couplers.
- Scope of delivery: 1 tool without accessories.

d-d [mm]	Code	kg	
20 - 63	**799 301 575**	1,409	

PF 2 51 305

Spare parts for clamps



Pos	Dimension	Code	kg	Description	
1	63-125, 45mm	**799 900 414**	1,700	square support short	
	110-225, 60mm	**799 900 405**	3,500	square support short	
	225-400, 80mm	**799 900 394**	6,000	square support short	
2	63-125, 45mm	**799 900 413**	3,600	square support long	
	110-225, 60mm	**799 900 404**	6,500	square support long	
	225-400, 80mm	**799 900 387**	11,500	square support long	
3	63-125	**799 900 422**	0,891	prism small	
	110-225	**799 900 424**	1,505	prism small	
	225-400	**799 900 426**	1,400	prism small	
4	63-125	**799 900 421**	0,977	prism wide	
	110-225	**799 900 423**	2,000	prism wide	
	225-400	**799 900 425**	4,500	prism wide	
5	63-125	**799 150 322**	0,220	ratch 25/13.5/0.7, without hook	
	63-125	**799 150 312**	0,270	ratch 25/15/0.7	
	110-225	**799 150 313**	0,232	ratch 25/25/0.7	
	110-225	**799 150 323**	0,223	ratch 25/13.5/1.1, without hook	
	225-400	**799 150 324**		25/13.5/1.5, without hook	
	110-225	**799 150 315**	0,496	ratch 35/35/1.1	
	225-400	**799 150 319**	1,415	ratch 50/50/1.5	
7		**799 150 314**	0,050	clamping screw	

PF 2 51 305

9 301 575

Inserts for Multi Clamp

- The inserts are easily and quickly exchanged. A set consists of 4 inserts, each insert with 2 different dimensions.

d-d [mm]	Code	kg	Description	
25 - 20	**799 150 385**	0,806	Inserts, Sets	
32 - 20	**799 150 386**	0,520	Inserts, Sets	
32 - 25	**799 150 387**	0,520	Inserts, Sets	
40 - 32	**799 150 388**	0,520	Inserts, Sets	
50 - 40	**799 150 389**	0,520	Inserts, Sets	
63 - 32	**799 150 390**	0,520	Inserts, Sets	
63 - 40	**799 150 391**	0,520	Inserts, Sets	
63 - 50	**799 150 392**	0,520	Inserts, Sets	

PF 2 51 305

9 370 000

Clamp for coiled pipe

- These clamps are easily mounted on coiled pipes. They hold the pipes in position during the fusion time and cooling phase.
- Scope of delivery: 1 tool with clamp and belt.

d-d [mm]	Code	kg	
25 - 63	**799 370 007**	4,000	
63 - 125	**799 370 011**	10,000	

PF 2 51 305

Tooling and Installation equipment

Clamping device Topload 315

Neu

- This clamp and mounting tool is used to "top-load" ELGEF® Plus Saddles onto pipes of dimensions d 280 - 315 mm.
- Scope of delivery: 1 basis mounting clamp, 1 bracket, 2 clamping screws, 2 ratchet scraps, 1 transport-box

d-d [mm]	Code	kg	
280 - 315	**799 350 475**	15,000	

PF 2 51 305

9 150 090

Spring Clamp for ELGEF® 24 V Reinforcing Saddles

- The Spring Clamp is used to install ELGEF® 24 V reinforcing saddles d 40 - 225 mm. The tool ensures a constant jointing pressure during the entire fusion cycle.

d-d [mm]	Code	kg	
40 - 225	**799 150 090**	1,289	

PF 2 51 305

Tooling and Installation equipment

Tapping Tools

PF 2 51 305

Assembly and Tapping Key for ELGEF® Plus Saddles

- Combination tool for tapping and tightening of fixation screws.

Type	Code	kg	Description	
8/10/17	**799 198 047**	0,803	For all saddles	

PF 2 51 305

Tapping Key for ELGEF® Plus Saddles

- With adjustable tapping depth.

Type	Code	kg	Description	
10	**799 198 080**	0,120	for Monobloc d 40 mm and d 50 mm	
17	**799 198 079**	0,555	for Monobloc d 63 mm and all Duobloc saddles	
12.7	**799 198 091**	0,600	for socket with cutter	

PF 2 51 305

Hexagon Key for ELGEF® Plus Saddles and Branch Fittings

- For tightening fixation screws.

Type	Code	kg	Description	
SW8	**799 150 378**	0,152	For all saddles and branch fittings	

PF 2 51 305

Tapping Adapter for ELGEF® Plus Saddles

- The Adapter is used for gas-free tapping under pressure. Type S 54 for tapping saddles with rotatable outlet d 20 - 40 mm (Tapping Tee d 32 mm). Type S 67 for tapping saddles with rotatable outlet d 50 - 63 mm (Tapping Tee d 63 mm).

Type	Code	kg	Description	
S 54	**799 100 061**	0,813	for Tapping Tee d 32 mm	
S 67	**799 100 062**	1,011	for Tapping Tee d 63 mm	

PF 2 51 305

Pressure Test Cap for ELGEF® Plus Tapping Saddles

- "The cap has a Rp 3/8"" connection thread and is made from galvanised steel."
- **Overview of Tapping Adapter types and Pressure Test Cap**
- Typ Bezeichnung description
- M For Monoblock d 40 and 50 mm (outlets d 20 - 32 mm)
- S 54 For Monoblock d 63 (outlets d 20 - 32 mm) and all saddles with rotatable outlet (outlets d 20 - 40 mm) i.e. Tapping Tee d 32 mm.
- S 67 For all Saddles with rotatable outlet (outlets d 50 and 63 mm) i.e. Tapping Tee d 63 mm.

Type	Code	kg	Description	
M	**799 199 282**	0,119	for Monoblock d 40 mm and d 50 mm	
S 54	**799 199 283**	0,283	for Monoblock d 63 mm and Tapping Tee d 32 mm	
S 67	**799 199 286**	0,461	for Tapping Tee d 63 mm	

Tooling and Installation equipment

Basic Tool Box

PF 2 51 305

- The Basic Tool Box contains equipment which can be used with PE and PVC saddles. The tapping tool has an automatic feed. It is held in place on the saddle or pipe by means of a securing strap.
- Scope of delivery: tapping tool, securing belt, pipe adapter, adapter disc for PVC branch saddles, guide disc, ratchet and transport case.

Code	kg	Description	
799 150 351	8,078	Basic Tool Box	

Components of Basic Tool Box
Basic Tapping Tool

PF 2 51 305

- Tapping Tool with automatic feed.
- Scope of delivery: 1 tapping tool and securing belt.

Code	kg	Description	
799 150 015	2,261	component Basic Tool Box	

Pipe Adapter

PF 2 51 305

Code	kg	Description	
799 150 352	1,050	component Basic Tool Box	

Adapter Disc for PVC Tapping Saddles

PF 2 51 305

Code	kg	Description	
799 150 354	0,200	component Basic Tool Box	

Guiding Disc

PF 2 51 305

Code	kg	Description	
799 150 353	0,083	component Basic Tool Box	

Ratchet

PF 2 51 305

Code	kg	Description	
799 150 032	0,448	component Basic Tool Box	

Accessories for Tapping Tool
PE Adapter

PF 2 51 305

- The Adapter is used to locate the tapping tool on ELGEF® Plus Stop-off Saddles 53 149 200.

Code	kg	Description	
799 150 359	0,742	accessories Basic Tool Box	

Tooling and Installation equipment

Cutter for PE Pipes

PF 2 51 305

- This cutter is suitable for PE pipes and can be used on pipes of up to d 225 mm with a wall thickness of up to 21 mm.

d [mm]	Code	kg	Description
30	**799 198 013**	0,131	accessories Basic Tool Box
39	**799 198 012**	0,215	accessories Basic Tool Box
50	**799 198 057**	0,278	accessories Basic Tool Box

Cutter for PVC Pipes

PF 2 51 305

- This cutter is suitable for PVC pipes and can be used on pipes with a diameter of up to 225 mm and a wall thickness of up to 12 mm.

d [mm]	Code	kg	Description
21	**799 199 049**	0,095	accesories Basic Tool Box
30	**799 199 050**	0,159	accesories Basic Tool Box
39	**799 199 051**	0,295	accesories Basic Tool Box

PE Repair Plug

PF 2 51 305

- PE Repair Plugs are suitable for use with ELGEF® 24 V PE Reinforcement Saddles 53 127 000.

d [mm]	Code	kg
30	**799 199 088**	0,012
39	**799 199 089**	0,019

Hexagon Key for PVC Saddles

PF 2 51 305

- The Hexagon Key is suitable for tapping water and gas mains under pressure.
- Scope of delivery: 1 hexagon key, protective cover, without rotating pin.

d-d [mm]	Code	kg	s [mm]	G [inch]
16 - 25	**799 150 007**	0,345	19	30
32 - 40	**799 150 008**	0,496	27	38
50 - 63	**799 150 009**	0,690	27	47

Rotating pin for Hexagon Key

PF 2 51 305

Description	Code	kg
10x350 mm	**799 150 011**	0,220

Transport Box

PF 2 51 305

Description	Code	kg
Replacement Transport Box to Basic Tool Box	**799 150 033**	4,000

Tooling and Installation equipment

Squeeze-off and Rerounding tools

9 350 107

Squeeze-off Tool, Type S1

- This mechanical device is used to squeeze-off PE pipes during repair and extension work. In order not to over-stress the pipe, the tool is equipped with adjustable end stops for SDR 11 (ISO S5) pipes. Due to different wall thickness` of the pipes, the squeezing degree may differ up to 0,8.

d-d [mm]	Code	kg	Description	
20 - 63	**799 350 107**	4,449	S1 for PE pipes SDR 11	

PF 2 51 305

9 350 108

Squeeze-off Tool, Type S2

- This mechanical device is used to squeeze off PE pipes during repair and extension work. In order not to over-stress the pipe, the tool is equipped with adjustable end stops for SDR 11 (ISO S5) and SDR 17 (ISO S8) pipes.

d-d [mm]	Code	kg	Description	
63 - 180	**799 350 108**	35,800	S2 for PE pipes SDR 11 and SDR 17	

PF 2 51 305

9 350 270

Squeeze-off Tool, A25

- This mechanical device is used to squeeze off PE pipes during repair and extension work. In order not to over-stress the pipe, the tool is equipped with adjustable end stops for SDR 11 (ISO S5) and SDR 17 (ISO S8) pipes.

d-d [mm]	Code	kg	Description	
160 - 250	**799 350 270**	60,000	A25 for PE pipes SDR 11 and SDR 17	

PF 2 51 305

9 350 110

Re-rounding Clamp

- Re-rounding Clamps are used to re-round squeezed-off pipes. They can be left on the squeezed-off part of the pipe as a support if so desired.

d [mm]	Code	kg	
63	**799 350 113**	3,000	
75	**799 350 114**	3,600	
90	**799 350 115**	3,500	
110	**799 350 116**	5,750	
125	**799 350 117**	5,690	
160	**799 350 118**	7,500	
180	**799 350 119**	27,000	
200	**799 350 120**	27,500	
225	**799 350 121**	11,595	
250	**799 350 172**	34,000	

PF 2 51 305

Tooling and Installation equipment

Re-rounding Tool

- Re-rounding tools are used to re-round oval pipes during fusion as well as during the cooling time.

d [mm]	Code	kg	
25	**799 199 127**	0,750	
32	**799 199 128**	0,500	
40	**799 199 129**	1,500	
50	**799 199 130**	1,250	
63	**799 199 131**	1,250	
75	**799 199 132**	1,500	
90	**799 199 133**	1,500	
110	**799 199 134**	2,000	
125	**799 199 135**	2,000	
160	**799 199 137**	2,250	
180	**799 199 138**	3,000	
200	**799 199 139**	2,500	
225	**799 199 140**	3,000	
250	**799 199 141**	3,630	

PF 2 51 305

Pressure Pad Kit

- Complete kit of assembly equipment
- Consists of 3 air pressure pads, control unit with manifold, pressure hoses, strap corset, detailed instruction leaflets and transport case
- For operation with pressurized air up to 10 bar according EN 292
- Tool for dual use: Pipe re-rounding and fusion pressure reinforcement

d-d [mm]	Code	kg	
560 - 630	**799 301 561**	47,900	

PF 2 51 305

Tooling and Installation equipment

Miscellaneous Tools

By-pass Unit, complete

PF 2 51 305

- The By-pass Unit (Series II) suits ELGEF® Plus Stop-off saddles 53 149 200. Scope of delivery: pressure guage, valve, snap coupling, tee with lock nut, screw cap and sealing plug. The matching connecting parts for a By-pass line are PE pipes d 40 x 3.7 with PE pipe assembly PVP 1 1/4" 721506950 (PN10) or PE pipe d 40 x 2.3 with PE pipe assembly PVP 1 1/4 721506952 (PN6).

Code	kg	
799 150 376	1,064	

Stop-off Bag with Coupling

PF 2 51 305

- The Stop-off bags (Series II) can be used with the By-pass Unit (Series II) and are suitable for stopping-off gas mains with a maximum operating pressure of 1 bar.

d [mm]	Code	kg	SDR 11	SDR 17	e [mm]	
63	**799 100 082**	0,156	X	X	3,6-6,6	
75	**799 100 083**	0,156	X	X	4,3-7,8	
90	**799 100 084**	0,174	X	X	5,1-9,3	
110	**799 100 085**	0,206	X	X	6,3-11,2	
125	**799 100 086**	0,208	X	X	7,1-12,8	
140	**799 100 087**	0,270	X	X	8,3-12,7	
160	**799 100 088**	0,273	X	X	9,1-16,3	
180	**799 100 089**	0,250	X	-	16,4-18,3	
180	**799 100 090**	0,281	-	X	10,2-11,5	
200	**799 100 091**	0,397	X	-	18,2-20,3	
200	**799 100 092**	0,414	-	X	11,4-12,8	
225	**799 100 093**	0,407	X	-	20,5-22,8	
225	**799 100 094**	0,372	-	X	12,8-14,3	
250	**799 100 095**	0,423	-	X	14,2-15,9	
250	**799 100 096**	0,431	X	-	22,8-25,3	
315	**799 100 097**	0,565	-	-	7,7-11,2	
315	**799 100 098**	0,541	X	X	17,9-43,5	

Transition Coupling

PF 2 51 305

- Transition Couplings to convert earlier By-pass Units (Series I, Code no. 799150142) to second series stop-off bags (Code no. 799100082 to 098).

Code	kg	
799 150 374	0,010	

Connecting Nipple

PF 2 51 305

- To convert earlier By-pass Units (Code no. 799100042 to 057) to later By-pass Units (Series II, Code no. 799150376).

Code	kg	
799 150 375	0,010	

KS Tangit Cleaner

F

- Special cleaning agent for plastic fusion connections with PP, PE, PVDF and PB.

PF 2 28 473

Code	kg	
799 298 023	0,890	

Tooling and Installation equipment

Accessories for job sites

Roller support 315

- Up to d 315 mm, with base plate, galvanised
- The piping can be pulled with little effort
- Protects pipes from damage
- Reduces resistance during fusion
- Maximum load 300 kg

	d-d [mm]	Code	kg	
PF 3 25 117	20 - 315	**790 109 110**	4,000	

Support 750

- Up to d 750 mm, with base plate, galvanised
- **height adjustable** (60 mm)
- The piping can be pulled with little effort
- Protects pipes from damage
- Reduces resistance during fusion
- Maximum load 1000 kg

	d-d [mm]	Code	kg	
PF 3 25 117	110 - 750	**790 109 109**	4,115	

Alignment Tool

- To align and position pipes in the dimension range d 110 - 400 mm. The pipes are clamped in the vice, the axial movement takes placed by a chain drive. The chain is totated by the ratched (square 19 mm).

	Article	Code	kg	
PF 3 25 117	Alignment Tool	**790 109 108**	15,000	
	Ratch	**790 109 107**	1,220	

Marker

	Type	Code	kg	
PF 2 55 338	silver	**799 350 364**	0,012	

Tooling and Installation equipment

PPC Plastic pipe cutter and KS 355

PPC Plastic pipe cutter

PF 3 25 117

- For cutting plastic pipes d10 - d160

d-d [mm]	Article	Code	kg	
10 - 63	PPC 63, s max. = 7,2mm	**790 109 001**	0,710	
50 - 110	PPC 110, s max. = 12.7mm	**790 109 002**	1,400	
110 - 160	PPC 160, s max. = 19,0mm	**790 109 003**	1,880	

Replacement cutting wheels

PF 3 25 117

- **for plastic pipe cutter**

d-d [mm]	Article	Code	kg	
10 - 63	SR 63 max. s=7,2 mm	**790 109 011**	0,004	
50 - 110	SR 110/160 max. s=12,7 mm	**790 109 012**	0,015	
110 - 160	SR 160 max. s=19,0 mm	**790 109 013**	0,023	

Plastic pipe cutter

PF 3 25 129

- The KS 355 is the ideal tool for simple right angle precision cutting of PVC, PE and PP pipes, Size range d 160 to 355 mm with a minimum wall thickness up to 40 mm. Including transport box.
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts neccessary

d-d [mm]	Code	kg	
160 - 355	**790 202 001**	35,000	

Saw blade Ø 180x30

PF 3 25 119

Code	kg	
790 202 011	0,485	

Tooling and Installation equipment

KS 1600

Plastic pipe cutter

The KS 1600 is prepared to cut plastic-pipes from diameter 355 mm up to 1600 mm with a wall thickness of max. 60 mm, fast, clean and properly right-angled. For each pipe-diameter the appropriate chain length is necessary. The saw is to put on the tensioned chain as per user manual and serves as a guiding device for the saw over a full 360° turn.

The guard plate covers the saw blade also during operation and provides full protection for the user all the time.

The KS 1600 Basis-Kit consists of a hand-circular saw, 230 V / 2200 W with carriage, 2 tension chains for d 560 mm and d 630 mm as well as a chain tensioner. The whole equipment is to be placed easily into the convenient and robust transport box.

The easy handling and the optimal safety factor do make this tool indispensable on each building site.

Scope of delivery:
1 Hand-circular saw, 1 tensioning chain d 560 mm, 1 tensioning chain d 630, 1 chain tensioner, 1 hex-wrench size 5, 1 hex-wrench size 6, 1 operating instruction, transport-box

Technical data:

Dimension range:	355 –1600 mm (By usage of the respective tensioning chain)
Plug:	EU-Plug
Voltage:	230 V AC
Power:	2200 Watt
Frequency:	50-60 Hz
Circular saw blade outer-Ø:	240 mm
RPM:	4100
Sound level:	104 dB (A)
Weight saw:	15, 5 kg
Weight KS 1600 Basic-Kit:	43,5 kg
Dimensions saw (WxHxD):	790 x 330 x 335 mm
Dimensions Transport-Box:	950 x 400 x 395 mm

	d-d [mm]	Type	Code	kg	
PF 2 51 305	355 - 1600	KS 1600 Basic Kit	**790 109 600**	43,000	

Saw blade

	Description	Code	kg	
PF 3 25 119	Saw Blade 240X3,0X30, 18 teeth punched	**790 109 618**	0,653	

Tooling and Installation equipment

Chain tensioner

- Chain tensioner is included in the scope of delivery of the KS 1600 Basic-Kit (790 109 600).

d-d [mm]	Code	kg	
355 - 1600	**790 109 616**	0,430	

PF 3 25 119

Tensioning Chains

- Chain d 560 and d 630 mm are included in the scope of delivery of the KS 1600 Basic-Kit (790 109 600).

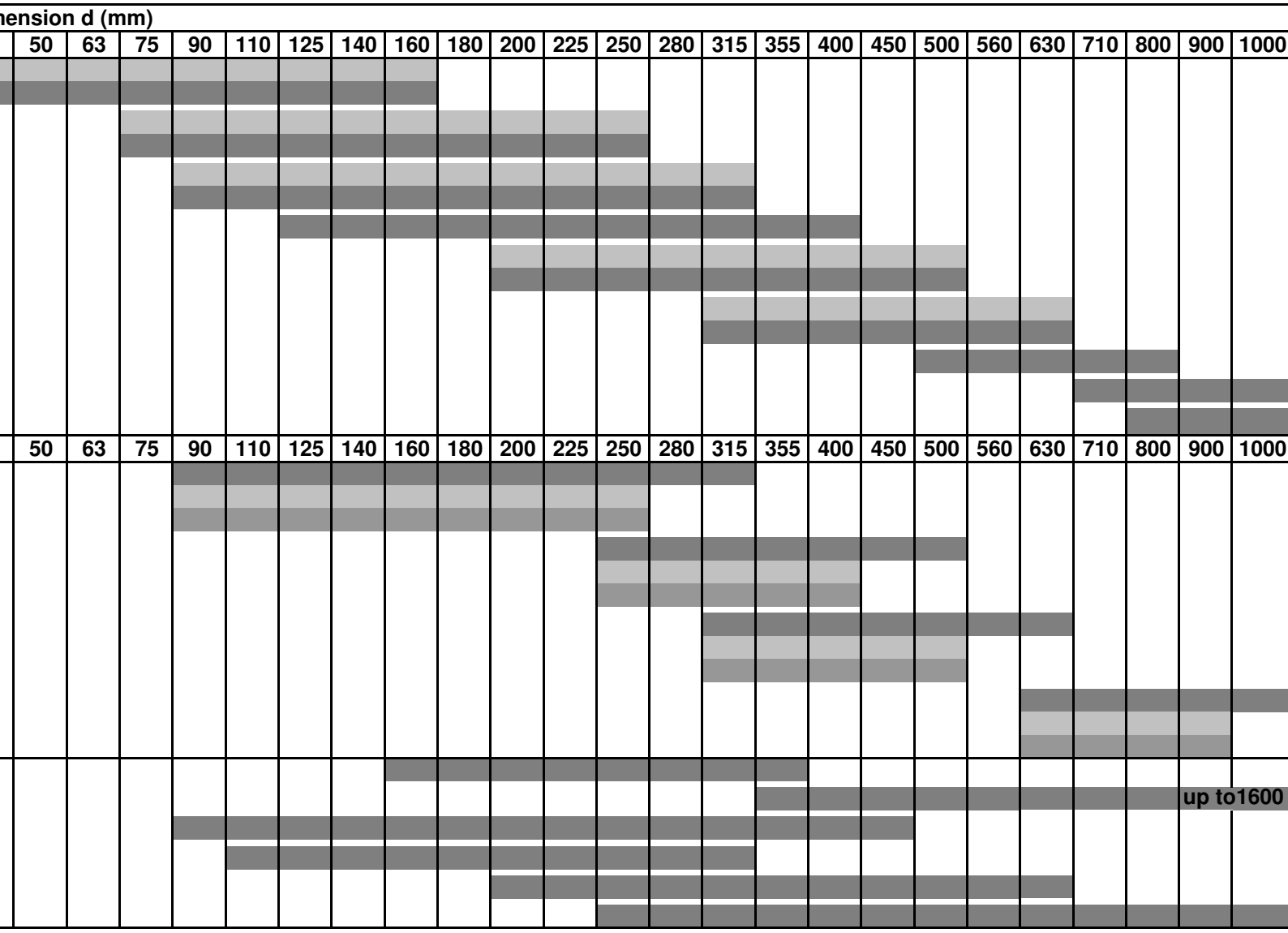
d [mm]	Code	kg	
355	**790 109 602**	3,700	
400	**790 109 603**	4,100	
450	**790 109 604**	4,700	
500	**790 109 605**	5,200	
560	**790 109 606**	5,600	
630	**790 109 607**	6,630	
710	**790 109 608**	7,900	
800	**790 109 609**	8,600	
900	**790 109 610**	10,100	
1000	**790 109 611**	11,000	
1100	**790 109 612**	12,000	
1200	**790 109 613**	13,500	
1400	**790 109 614**	15,500	
1600	**790 109 615**	17,800	

PF 3 25 129

Product Range

Distribution
Machines for
Processing Plastic-Pipes

GEORG FISCHER
PIPING SYSTEMS
+GF+



ility is taken for the correctness of this information.

Machines for Processing Plastic-Pipes

KL 160 ECO1 Butt fusion machine

Machine complete

- Compact and very lightweight heating element-butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings.
- Size range d 40 - 160 mm, for complete pressure range up to PN 16.
- (incl. carton pallet package, without accessories)
- 115 V on request!

d-d [mm]	Performance	Code	kg	
40 - 160	230 V/2100 W	**790 137 001**	82,500	

PF 3 10 571

Basic machine

- Distortion-free machine base
- Good accessibility thanks to 45° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Double clamping device for secure hold and exact radial and axial alignment of components
- For the purpose of welding bends and T-pieces the 2. clamping element is fast and without loosing stability on the guiding shafts relocatable
- Knurled handles for easy opening and closing of clamping brackets without additional tools
- drip-proof quick action coupling for the connection of the hydraulic hoses

d-d [mm]	Code	kg	
40 - 160	**790 319 001**	29,300	

PF 3 10 571

Planer

- Powerful parallel planer for single or double-sided facing of pipe ends
- Load transfer via maintenance-free, robust worm drive
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Safety switch to prevent undesired start-up

d-d [mm]	Performance	Code	kg	
40 - 160	230 V/710 W	**790 319 002**	8,300	

PF 3 10 571

Heating element

- High performance, electronic controlled heating element
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Additional thermometer for fast check of the fusion temperature

d-d [mm]	Performance	Code	kg	
40 - 160	230 V/1000 W	**790 319 004**	6,000	

PF 3 10 571

Machines for Processing Plastic-Pipes

PF 3 10 572

Remote control

- Electronic temperature control
- Accurate adjustment of heating element temperature

Code	kg	
790 137 003	5,000	

PF 3 10 571

Hydraulic unit

- Clearly visible, vibration-free pressure gauge with precision scaling
- Compact construction with protection frame
- Fine adjustment of pressure
- High pressure constance during cooling phase
- Fix attached hydraulic hose

Performance	Code	kg	
230 V/370 W	**790 137 002**	18,000	

Case

- For safe storage of planer and heating element

Code	kg	
790 114 006	7,500	

Machines for Processing Plastic-Pipes

KL 160 TOP2 Butt fusion machine

KL 160 TOP2 Machine complete

- Compact and very lightweight heating element-butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings.
- Size range d 40 - 160 mm, for complete pressure range up to PN 16.
- The butt fusion machine could be assembled with the data recorder SUVI® 50.
- Machine provided with cast-aluminium Hydromat hydraulic unit.
- (incl. carton pallet package, without accessories)
- 115 V on request!

	d-d [mm]	Performance	Code	kg	
PF 3 10 571	40 - 160	230 V/2100 W	**790 137 020**	70,000	

Hydromat

- Clearly visible, vibration-free pressure gauge with precision scaling
- Fine adjustment of pressure
- High pressure constance during cooling phase
- Cast-aluminium body (IP 44)
- joystick control
- drip-off quick action coupling

	Performance	Code	kg	
PF 3 10 571	230 V/370 W	**790 137 004**	5,000	

Machines for Processing Plastic-Pipes

KL 160 Accessories

PF 3 25 117

Reduction clamping inserts, wide

- d 40 - 140 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	Code	kg	
40	**790 114 023**	0,300	
50	**790 114 009**	0,320	
63	**790 114 010**	0,300	
75	**790 114 011**	0,300	
90	**790 114 012**	0,280	
110	**790 114 013**	0,245	
125	**790 114 014**	0,265	
140	**790 114 015**	0,180	

PF 3 25 117

Reduction clamping inserts, narrow

- d 40 - 140 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	Code	kg	
40	**790 114 027**	0,300	
50	**790 114 016**	0,310	
63	**790 114 017**	0,310	
75	**790 114 018**	0,280	
90	**790 114 019**	0,255	
110	**790 114 020**	0,225	
125	**790 114 021**	0,200	
140	**790 114 022**	0,140	

PF 3 25 117

Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension

d-d [mm]	Code	kg	
40 - 140	**790 114 156**	17,000	

PF 3 25 117

PF 3 10 571

Power control box

- Electric box for safe connection of all electric components
- Fitted with safety and protection devices
- IP 55 casing
- CEI-EN IP 44 electric connector
- Includes temperature control of heating plate

Performance	Code	kg	
230 V	**790 319 009**	12,000	

Machines for Processing Plastic-Pipes

PF 3 10 571

Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

d [mm]	Code	kg	
160	**790 319 007**	5,400	

PF 3 10 571

Upper narrow edge half clamp

- For the clamping of elbows

d [mm]	Code	kg	
160	**790 319 012**	0,800	

PF 3 10 571

1 Set planer blades

- Blade has 2 cutting edges
- (1 set = 2 blades)

Code	kg	
790 113 056	0,080	

Timer with 2 stop times

Code	kg	
790 114 028	0,100	

Machines for Processing Plastic-Pipes

KL 250 ECO1 Butt fusion machine

Machine complete

- Compact and robust heating element-butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings. For complete pressure range up to PN 16.
- (incl. carton pallet package, without accessories)
- 115 V on request!

	d-d [mm]	Performance	Code	kg	
PF 3 10 572	75 - 250	230 V/2700W	**790 138 001**	145,000	

Basic machine

- Distortion-free machine base
- Good accessibility thanks to 45° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Heater release mechanism
- drip-proof quick action coupling for the connection of the hydraulic hoses

	d-d [mm]	Code	kg	
PF 3 10 572	75 - 250	**790 138 002**	63,900	

Planer

- Powerful parallel planer for single or double-sided facing of pipe ends
- Load transfer via maintenance-free, robust chain
- Optimised cutting geometry for even and chatter-free planing
- Safety switch to prevent undesired start-up

	d-d [mm]	Performance	Code	kg	
PF 3 10 572	75 - 250	230 V/800 W	**790 138 003**	15,000	

Heating element

- High performance, electronic controlled heating element
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Additional thermometer for fast check of the fusion temperature

	d-d [mm]	Performance	Code	kg	
PF 3 10 572	75 - 250	230 V/1500 W	**790 115 004**	9,000	

Remote control

- Electronic temperature control
- Accurate adjustment of heating element temperature

Code	kg	
790 137 003	5,000	

Machines for Processing Plastic-Pipes

PF 3 10 572

Hydraulic unit

- Clearly visible, vibration-free pressure gauge with precision scaling
- Compact construction with protection frame
- Fine adjustment of pressure
- High pressure constance during cooling phase
- Fix attached hydraulic hose

Performance	Code	kg	
230 V/370 W	**790 320 153**	23,000	

Case

- For safe storage of planer and heating element

Code	kg	
790 115 005	14,000	

Machines for Processing Plastic-Pipes

KL 250 TOP2 Butt fusion machine

KL 250 TOP2 Machine complete

- Compact and very lightweight heating element-butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings.
- For complete pressure range up to PN 16.
- (incl. carton pallet package, without accessories)
- 115 V on request!

	d-d [mm]	Performance	Code	kg	
PF 3 10 572	75 - 250	230 V/2700 W	**790 138 020**	153,000	

Hydromat

- Clearly visible, vibration-free pressure gauge with precision scaling
- Fine adjustment of pressure
- High pressure constance during cooling phase
- Cast-aluminium body (IP 44)
- joystick control
- drip-off quick action coupling

	Performan-ce	Code	kg	
PF 3 10 572	230 V	**790 138 005**	22,000	

Machines for Processing Plastic-Pipes

KL 250 Accessoires

Reduction clamping inserts, wide

- d 75 - 225 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	Code	kg	
75	**790 115 028**	0,815	
90	**790 115 008**	0,835	
110	**790 115 009**	0,825	
125	**790 115 010**	0,785	
140	**790 115 011**	0,735	
160	**790 115 012**	0,695	
180	**790 115 013**	0,660	
200	**790 115 014**	0,715	
225	**790 115 015**	0,465	

PF 3 25 117

Reduction clamping inserts, narrow

- d 75 - 225 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	Code	kg	
75	**790 115 029**	0,740	
90	**790 115 016**	0,715	
110	**790 115 017**	0,690	
125	**790 115 018**	0,680	
140	**790 115 019**	0,625	
160	**790 115 020**	0,595	
180	**790 115 021**	0,520	
200	**790 115 022**	0,455	
225	**790 115 023**	0,390	

PF 3 25 117

Power control box

- Electric box for safe connection of all electric components
- Fitted with safety and protection devices
- IP 55 casing
- CEI-EN IP 44 electric connector
- Includes temperature control of heating plate

Performance	Code	kg	
230 V	**790 320 009**	10,000	

PF 3 10 572

Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension

d-d [mm]	Code	kg	
75 - 225	**790 115 156**	48,000	

PF 3 25 117

Machines for Processing Plastic-Pipes

PF 3 25 117

Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

d [mm]	Code	kg	
250	**790 115 044**	7,900	

PF 3 10 572

Upper narrow edge half clamp

- For the clamping of elbows

d [mm]	Code	kg	
250	**790 320 012**	1,700	

Timer with 2 stop times

Code	kg	
790 114 028	0,100	

PF 3 25 117

1 Set planer blades

- (1 set = 2 blades)

Code	kg	
790 115 024	0,060	

Machines for Processing Plastic-Pipes

KL 315 ECO1 Butt fusion machine

Machine complete

- Compact and robust heating element-butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings. For complete pressure range up to PN 16.
- (incl. carton pallet package, without accessories)
- 115 V on request!

d-d [mm]	Performance	Code	kg	
90 - 315	230 V/3700 W	**790 139 001**	164,000	

PF 3 10 573

Basic machine

- Double clamping device for secure hold and exact radial and axial alignment of components
- For the purpose of welding bends and T-pieces the 2. clamping element is fast and without loosing stability on the guiding shafts relocatable
- Heater release mechanism
- Good accessibility thanks to 45° inclination
- drip-proof quick action coupling for the connection of the hydraulic hoses

d-d [mm]	Code	kg	
90 - 315	**790 139 002**	67,000	

PF 3 10 573

Planer

- Powerful parallel planer for single or double-sided facing of pipe ends
- Load transfer via maintenance-free, robust chain
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg	
90 - 315	230 V/1020 W	**790 139 003**	21,000	

PF 3 10 573

Heating element

- High performance, electronic controlled heating element
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Additional thermometer for fast check of the fusion temperature

d-d [mm]	Performance	Code	kg	
90 - 315	230 V/2300 W	**790 112 083**	11,700	

PF 3 10 573

Remote control

- Electronic temperature control
- Accurate adjustment of heating element temperature

Code	kg	
790 137 003	5,000	

Machines for Processing Plastic-Pipes

Hydraulic unit

- Clearly visible, vibration-free pressure gauge with precision scaling
- Compact construction with protection frame
- Fine adjustment of pressure
- High pressure constance during cooling phase
- Fix attached hydraulic hose

Performance	Code	kg	
230 V/370 W	**790 320 153**	23,000	

PF 3 10 573

Case

- For safe storage of planer and heating element

Code	kg	
790 325 006	18,500	

Machines for Processing Plastic-Pipes

KL 315 TOP2 Butt fusion machine

KL 315 TOP2 Machine complete

Neu

- Compact and very lightweight heating element-butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings.
- For complete pressure range up to PN 16.
- (incl. carton pallet package, without accessories)
- 115 V on request!

	d-d [mm]	Performance	Code	kg	
PF 3 10 573	90 - 315	230 V/3700 W	**790 139 020**	160,000	

Machines for Processing Plastic-Pipes

KL 315 Accessories

PF 3 10 573

Control box

- Electric box for safe connection of all electric components
- Fitted with safety and protection devices
- IP 55 casing
- CEI-EN IP 44 electric connector
- Includes temperature control of heating plate

Code	kg	
790 139 006	12,500	

PF 3 25 117

Reduction clamping inserts, wide

- d 90 - 280 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	Code	kg	
90	**790 112 088**	1,000	
110	**790 112 089**	1,050	
125	**790 112 090**	0,988	
140	**790 112 091**	0,975	
160	**790 112 092**	1,062	
180	**790 112 093**	0,988	
200	**790 112 094**	0,937	
225	**790 112 095**	0,975	
250	**790 112 096**	0,937	
280	**790 112 097**	0,800	

PF 3 25 117

Reduction clamping inserts, narrow

- d 90 - 280 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	Code	kg	
90	**790 112 098**	0,995	
110	**790 112 099**	1,285	
125	**790 112 100**	1,245	
140	**790 112 101**	1,205	
160	**790 112 102**	1,135	
180	**790 112 103**	1,010	
200	**790 112 104**	0,950	
225	**790 112 105**	0,865	
250	**790 112 106**	0,770	
280	**790 112 107**	0,560	

PF 3 25 117

Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension

d-d [mm]	Code	kg	
90 - 280	**790 112 156**	78,000	

PF 3 25 117

Machines for Processing Plastic-Pipes

Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

PF 3 25 117

d [mm]	Code	kg	
160	**790 114 045**	6,400	

Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

PF 3 25 117

d [mm]	Code	kg	
315	**790 112 073**	10,100	

Upper narrow edge half-clamp

- For the clamping of elbows

PF 3 10 573

d [mm]	Code	kg	
315	**790 325 012**	2,400	

1 Set planer blades

- (1 set = 2 blades)

PF 3 25 117

	Code	kg	
	790 112 110	0,115	

Timer with 2 stop times

Code	kg	
790 114 028	0,100	

Machines for Processing Plastic-Pipes

KL 500 TOP2 Butt fusion machine

Machine complete

Neu

- Compact and robust heating element-butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings. For complete pressure range up to PN 16.
- Machine provided with Hydromat hydraulic unit and microprocessor assisted temperature remote controller with digital display. Heating element electronically operated through the remote controller.

d-d [mm]	Performance	Code	kg	
200 - 500	400 V/6250 W	**790 140 010**	345,000	

PF 3 10 574

Basic machine

- Double clamping device for secure hold and exact radial and axial alignment of components
- Good accessibility thanks to 45° inclination
- drip-proof quick action coupling for the connection of the hydraulic hoses

d-d [mm]	Code	kg	
200 - 500	**790 340 001**	67,000	

PF 3 10 573

Planer

- Powerful parallel planer for single or double-sided facing of pipe ends
- Load transfer via maintenance-free, robust chain
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg	
200 - 500	400 V/750 W	**790 340 002**	55,000	

Heating element

- High performance, electronic controlled heating element
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Additional thermometer for fast check of the fusion temperature

d-d [mm]	Performance	Code	kg	
200 - 500	400 V/4000 W	**790 340 004**	24,000	

PF 3 10 574

Remote control

- Electronic temperature control
- Accurate adjustment of heating element temperature

Code	kg	
790 340 003	5,000	

Machines for Processing Plastic-Pipes

Case

- For safe storage of planer and heating element

Code	kg	
790 116 006	41,000	

PF 3 10 574

Hydromat

- Clearly visible, vibration-free pressure gauge with precision scaling
- Fine adjustment of pressure
- High pressure constance during cooling phase

Performance	Code	kg	
230 V/1500 W	**790 340 005**	29,000	

Machines for Processing Plastic-Pipes

KL 500 Accessories

PF 3 25 117

Reduction clamping inserts, wide

- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

In order to mount the inserts d 200/d 225, the reduction clamping insert 790 116 015 must also be used

d [mm]	Code	kg	
200	**790 116 008**	4,160	
225	**790 116 009**	3,300	
250	**790 116 010**	3,300	
280	**790 116 011**	3,500	
315	**790 116 012**	3,600	
355	**790 116 013**	3,700	
400	**790 116 014**	3,400	
450	**790 116 015**	3,500	

PF 3 25 117

Reduction clamping inserts, narrow

- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

In order to mount the inserts d 200/d 225, the reduction clamping insert 790 116 015 must also be used

d [mm]	Code	kg	
200	**790 116 016**	3,680	
225	**790 116 017**	4,100	
250	**790 116 018**	4,100	
280	**790 116 019**	3,800	
315	**790 116 020**	3,500	
355	**790 116 021**	3,200	
400	**790 116 022**	2,500	
450	**790 116 023**	2,500	

PF 3 25 117

Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension

d-d [mm]	Code	kg	
250 - 450	**790 116 156**	162,000	

PF 3 25 117

PF 3 25 117

Control box

- 400 V
- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame

Code	kg	
790 116 038	15,500	

Machines for Processing Plastic-Pipes

Hoist unit, complete

- For carrying the weight compensator Mounted at the backside of the basic machine
- Hoist unit (consists of frame and swivel arm)

	Performance	Code	kg	
PF 3 25 117	230 V/500 W/50 Hz 230 V/500 W/50 Hz	**790 116 026** **790 140 026**	22,000 22,000	

Weight compensator

- For heating element, planer weight is partly compensated

	Code	kg	
PF 3 25 117	**790 116 027**	12,500	

Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

	d [mm]	Code	kg	
PF 3 25 117	450	**790 116 045**	19,000	

1 Set planer blades

- Blade has 2 cutting edges (1 set = 2 blades)

	Code	kg	
PF 3 25 117	**790 116 041**	0,700	

Machines for Processing Plastic-Pipes

KL 630 TOP2 Butt fusion machine

PF 3 10 575

Machine complete

Neu

- Compact and robust heating element-butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings. For complete pressure range up to PN 16.
- Machine provided with Hydromat hydraulic unit and microprocessor assisted temperature remote controller with digital display. Heating element electronically operated through the remote controller.

d-d [mm]	Performance	Code	kg	
315 - 630	400 V/11000 W	**790 345 012**	627,000	

PF 3 10 573

Basic machine

- Double clamping device for secure hold and exact radial and axial alignment of components
- Good accessibility thanks to 45° inclination
- drip-proof quick action coupling for the connection of the hydraulic hoses

d-d [mm]	Code	kg	
315 - 630	**790 117 002**	225,000	

Planer

- Powerful parallel planer for single or double-sided facing of pipe ends
- Load transfer via maintenance-free, robust chain
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg	
315 - 630		**790 117 003**	98,000	

PF 3 10 573

Heating element

- High performance, electronic controlled heating element
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Additional thermometer for fast check of the fusion temperature

d-d [mm]	Performance	Code	kg	
315 - 630		**790 117 004**	36,000	

Remote control

- Electronic temperature control
- Accurate adjustment of heating element temperature

Code	kg	
790 340 003	5,000	

Machines for Processing Plastic-Pipes

Case

- For safe storage of planer and heating element

Code	kg	
790 117 006	55,000	

Machines for Processing Plastic-Pipes

KL 630 Accessories

Reduction clamping inserts, wide

PF 3 25 117

- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

In order to mount the inserts d 315/d 355/d 400/d 450, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

d [mm]	Code	kg	
315	**790 116 012**	3,600	
355	**790 116 013**	3,700	
400	**790 116 014**	3,400	
450	**790 116 015**	3,500	
500	**790 117 012**	4,600	
560	**790 117 013**	4,300	

Reduction clamping inserts, narrow

- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

In order to mount the inserts d 315/d 355/d 400/d 450, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

d [mm]	Code	kg	
315	**790 116 020**	3,500	
355	**790 116 021**	3,200	
400	**790 116 022**	2,500	
450	**790 116 023**	2,500	

Control box

PF 3 25 117

- 400 V
- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame

Code	kg	
790 117 038	14,000	

Hoist unit, complete

- Hoist unit (consists of frame and swivel arm)
- Arm length 2m, pivoting, back/forward, max. column height from floor 3.30m
- Electrical unit 400 V / 600 W
- Hoist capacity 250 kg
- 2 hoisting speeds (1,7 m/min. and 7.0 m/min.)

Code	kg	
790 117 023	196,000	

PF 3 25 117

Machines for Processing Plastic-Pipes

Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

	d [mm]	Code	kg	
PF 3 25 117	560	**790 117 029**	27,000	

1 Set planer blades

- Blade has 2 cutting edges (1 set = 2 blades)

	Code	kg	
PF 3 25 117	**790 117 041**	0,470	

Machines for Processing Plastic-Pipes

GF 160 Butt fusion machine

Machine complete

- High quality, long-lasting heating element butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings. Size range d 40-160 mm, for complete pressure range up to PN 16.
- The GF160 butt fusion machine could be assembled with the data recorder SUVI® 50 or configured as a CNC machine with the SUVI® 400. The different versions are listed on the following pages.
- (incl. transport crate, without accessories)

d-d [mm]	Performance	Code	kg	
40 - 160	230 V/1820 W	**790 114 001**	121,000	
40 - 160	115 V/1820 W	**790 114 180**	121,000	

PF 3 25 133

Basic machine

- High precision design, distortion-free and sturdy machine bed
- Good accessibility thanks to 35° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Heater release mechanism to optimize the changeover phase
- Easy to remove left clamping element for fusion in tight spaces and for fittings such as T-pieces or bends d 160 mm
- Double clamping device for secure hold and exact radial and axial alignment of components
- Knurled handles for easy opening and closing of clamping brackets without additional tools
- Machine specific tool set

d-d [mm]	Code	kg	
40 - 160	**790 114 002**	25,500	

PF 3 25 133

Planer

- Powerful parallel planer for single or double-sided facing of pipe ends
- Load transfer via maintenance-free, robust worm drive
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg	
40 - 160	230 V/650 W	**790 114 003**	8,600	
40 - 160	115 V/650 W	**790 114 186**	8,600	

PF 3 25 117

Machines for Processing Plastic-Pipes

PF 3 25 117

Heating element

- High performance heating element with electronic, continuously adjustable temperature control
- High temperature accuracy over the entire heating surface
- Heating element temperature adjustable via rotary switch
- High-quality, non-stick PTFE-coating with long service life
- Easy placement in the correct working position with heater release mechanism

d-d [mm]	Performance	Code	kg	
40 - 160	230 V/800 W	**790 114 004**	5,500	
40 - 160	115 V/800 W	**790 114 187**	5,500	

PF 3 25 117

Hydraulic unit

- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Memory for automatic pressure equalization during the cooling phase
- Push-buttons to open and close the machine
- Pressure release button for optimal changeover from equalization phase to the heat soak phase
- Three integrated power outlets (planer, heating element, 1 additional)
- Easy level control and refilling of hydraulic oil
- Easy access FI protective switch for increased personal safety

Performance	Code	kg	
230 V/370 W	**790 114 005**	30,000	
115 V/370 W	**790 114 188**	30,000	

PF 3 25 117

Case

- For safe storage of planer and automatic heating element

Code	kg	
790 114 006	7,500	

Machines for Processing Plastic-Pipes

GF 160 Butt fusion machine with automatic heating element

Machine complete

- High quality, long-lasting heating element butt fusion machine with automatic heating element for fusion jointing PP, PE and PVDF pipes and fittings. Size range d 40-160 mm, for complete pressure range up to PN 16.
- The GF160 butt fusion machine could be assembled with the data recorder SUVI® 50 or configured as a CNC machine with the SUVI® 400. The different versions are listed on the following pages.
- (incl. transport crate, without accessories)

	d-d [mm]	Version	Code	kg	
PF 3 25 133	40 - 160	230 V/1820 W	**790 114 192**	135,000	

Basic machine

- High precision design, distortion-free and sturdy machine bed
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Easy to remove left clamping element for fusion in tight spaces and for fittings such as T-pieces or bends d 160 mm
- Double clamping device for secure hold and exact radial and axial alignment of components
- Knurled handles for easy opening and closing of clamping brackets without additional tools
- Heater release mechanism to optimize the changeover phase
- Good accessibility thanks to 35° inclination
- Tool set specified to machine

	d-d [mm]	Code	kg	
PF 3 25 133	40 - 160	**790 114 196**	26,000	

Automatic heating element

- High temperature accuracy over the entire heating surface
- Heating element temperature adjustable via rotary switch
- High-quality, non-stick PTFE-coating with long service life
- Easy placement in the correct working position with automatic heater release mechanism
- High performance heating element with electronic, continuously adjustable temperature control

	d-d [mm]	Performance	Code	kg	
PF 3 25 117	40 - 160	230 V/800 W	**790 114 197**	14,000	

Machines for Processing Plastic-Pipes

Case

PF 3 25 117

- For safe storage of planer and automatic heating element

Code	kg	
790 114 199	9,000	

Machines for Processing Plastic-Pipes

GF 160 CNC Butt fusion machine

PF 3 25 133

Machine complete

- For fusion jointing of PP and PE pipes and fittings. The automatic CNC, hydraulically-operated butt fusion machines are designed for applications in gas and water distribution piping systems as well as for use in trenches, outdoors or in the workshop.
- The CNC control unit (SUVI® 400) controls and regulates the complete fusion process according to the approved national guidelines (e.g. DVS guidelines).
- All fusion parameters (set/actual comparison) are recorded on a memory card and can be called up and shown on the display. External fusion data processing is easy with the exchangeable memory card or with the build-in interface for the PC, printer or laptop. The integrated error analysis system recognizes deviations from the defined parameters and interrupts the fusion cycle while simultaneously recording the error source.
- **SUVI® 400 CNC - Control unit**
- This unit consists of the hydraulic and the control unit with data recording
- Automatic control of planing with even-out function
- Automatically controlled temperature of the heating element
- Automatically controlled facing process
- User-friendly operation (keyboard)
- Minimal weight of complete CNC control unit with two handles for carrying
- Tamper-safe, easy data recording with exchangeable memory card (256 kB)
- Clear overview, 2-line LCD with backlighting
- Temperature sensor for accurate recording of ambient temperature
- Serial interface (RS 232, 9-in) to connect PCs or laptops
- Parallel standard printer interface (Centronics)
- Configuration of specific fusion parameters according to national guidelines
- Barcode reader for data input (optional)
- **Base machine**
- Technical features as for manual versions
- CNC: distance measurement system for accurate control of fusion slide (safety, monitoring fusion cycle, process monitoring)
- **Planer, Heating element, Hydraulic hose package, Case, Tool set**
- Technical features same as for manually operated machines

d-d [mm]	Performance	Type	Code	kg	
40 - 160	230 V/1850 W		**790 114 069**	119,000	
40 - 160	115 V/1850 W		**790 114 068**	119,000	
40 - 160	230 V/1850 W	Russian	**790 114 067**	119,000	
40 - 160	230 V/1850 W	Chinese	**790 114 178**	119,000	

Machines for Processing Plastic-Pipes

GF 160 CNC with automatic heating element

Machine complete

- For fusion jointing of PP and PE pipes and fittings. The fully automatic CNC, hydraulically-operated butt fusion machines are designed for applications in gas and water distribution piping systems as well as for use in trenches, outdoors or in the workshop.
- The CNC control unit (SUVI® 400) controls and regulates the complete fusion process according to the approved national guidelines (e.g. DVS guidelines).
- All fusion parameters (set/actual comparison) are recorded on a memory card and can be called up and shown on the display. External fusion data processing is easy with the exchangeable memory card or with the build-in interface for the PC, printer or laptop. The integrated error analysis system recognizes deviations from the defined parameters and interrupts the fusion cycle while simultaneously recording the error source.
- **SUVI® 400 CNC - Control unit**
- This unit consists of the hydraulic and the control unit with data recording
- Automatically controlled fusion cycle with built-in linear measurement unit (safety)
- Automatically controlled temperature of the heating element
- Minimal weight of complete CNC control unit with two handles for carrying
- Clear overview, 2-line LCD with backlighting
- Temperature sensor for accurate recording of ambient temperature
- Serial interface (RS 232, 9-in) to connect PCs or laptops
- Parallel standard printer interface (Centronics)
- Safe two-handed operation according to TÜV for machine carriage movement
- 6 languages, variable
- Configuration of specific fusion parameters according to national guidelines
- Barcode reader for data input (optional)
- **Base machine**
- Technical features same as for manually operated machines
- CNC: distance measurement system for accurate control of fusion slide (safety, monitoring fusion cycle, process monitoring)
- **Planer, Heating element, Hydraulic hose package, Case, Tool set**
- Technical features as for manual versions
- In the **fully automatic** version, the heating element is pleaced manually by the operator and after the heat soak phase automatically removed from the woking position.

d-d [mm]	Performance	Type	Code	kg	
40 - 160	230 V/1850 W		**790 114 191**	122,000	
40 - 160	230 V/1850 W	Russian	**790 114 179**	122,000	
40 - 160	230 V/1850 W	Chinese	**790 114 184**	129,000	

PF 3 25 133

Machines for Processing Plastic-Pipes

GF 160 Accessories

Reduction clamping inserts, wide

- d 40 - 140 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	Code	kg	
40	**790 114 023**	0,300	
50	**790 114 009**	0,320	
63	**790 114 010**	0,300	
75	**790 114 011**	0,300	
90	**790 114 012**	0,280	
110	**790 114 013**	0,245	
125	**790 114 014**	0,265	
140	**790 114 015**	0,180	

PF 3 25 117

Reduction clamping inserts, narrow

- d 40 - 140 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	Code	kg	
40	**790 114 027**	0,300	
50	**790 114 016**	0,310	
63	**790 114 017**	0,310	
75	**790 114 018**	0,280	
90	**790 114 019**	0,255	
110	**790 114 020**	0,225	
125	**790 114 021**	0,200	
140	**790 114 022**	0,140	

PF 3 25 117

Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension

d-d [mm]	Code	kg	
40 - 140	**790 114 156**	17,000	

PF 3 25 117

Special clamping bracket tapered

- For clamping of fittings d 160 mm
- For left-sided mounting (stationary side) with shell adapter
- Version for right-sided mounting (slide)
- L = left
- R = right

d [mm]	Type	Code	kg	
160	L	**790 114 025**	0,820	
160	R	**790 114 026**	0,680	

PF 3 25 117

PF 3 25 117

1 Set planer blades

- (1 set = 2 blades)

Code	kg	
790 113 056	0,080	

Machines for Processing Plastic-Pipes

GF 250 Butt fusion machine

PF 3 25 125

Machine GF 250 complete

- High quality, long-lasting heating element butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings. Size range d 75-250 mm, for complete pressure range up to PN 16.
- The GF250 butt fusion machine could be assembled with the data recorder SUVI® 50 or configured as a CNC machine with the SUVI® 400. The different versions are listed on the following pages.
- (as described below, including transport packaging, without accessories)

d-d [mm]	Performance	Code	kg	
75 - 250	230 V/2490 W	**790 115 001**	181,000	
75 - 250	115 V/2490 W	**790 115 180**	181,000	

PF 3 25 125

Basic machine

- High precision design, distortion-free and sturdy machine bed
- Good accessibility thanks to 35° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Heater release mechanism to optimize the changeover phase
- Easy to remove left clamping element for fusion in tight spaces and for fittings such as T-pieces or bends d 250 mm
- Double clamping device for secure hold and exact radial and axial alignment of components
- Knurled handles for easy opening and closing of clamping brackets without additional tools
- Machine specific tool set

d-d [mm]	Code	kg	
75 - 250	**790 115 002**	52,000	

PF 3 25 117

Planer

- Powerful parallel planer for single or double-sided facing of pipe ends
- Load transfer via maintenance-free, robust worm drive
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg	
75 - 250	230 V/620 W	**790 115 003**	13,600	
75 - 250	115 V/620 W	**790 115 186**	13,600	

Machines for Processing Plastic-Pipes

Heating element

- High performance heating element with electronic, continuously adjustable temperature control
- High temperature accuracy over the entire heating surface
- Heating element temperature adjustable via rotary switch
- High-quality, non-stick PTFE-coating with long service life
- Easy placement in the correct working position with heater release mechanism

d-d [mm]	Performance	Code	kg	
75 - 250	230 V/1500 W	**790 115 004**	9,000	
75 - 250	115 V/1500 V	**790 115 187**	9,000	

PF 3 25 117

Hydraulic unit

- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Memory for automatic pressure equalization during the cooling phase
- Push-buttons to open and close the machine
- Pressure release button for optimal changeover from equalization phase to the heat soak phase
- Three integrated power outlets (planer, heating element, 1 additional)
- Easy level control and refilling of hydraulic oil
- Easy access FI protective switch for increased personal safety

Performance	Code	kg	
230 V/370 W	**790 115 027**	30,000	
115 V/370 W	**790 115 188**	30,000	

PF 3 25 117

Hydraulic hose package

- Flexible hydraulic hoses, with drip-proof, quick action coupling

Code	kg	
790 112 085	4,250	

Case

- For safe storage of planer and automatic heating element

Code	kg	
790 115 005	14,000	

PF 3 25 117

Machines for Processing Plastic-Pipes

GF 250 Butt fusion machine with automatic heating element

Machine complete

- High quality, long-lasting heating element butt fusion machine with automatic heating element for fusion jointing PP, PE and PVDF pipes and fittings. Size range d 75-250 mm, for complete pressure range up to PN 16.
- The GF250 butt fusion machine could be assembled with the data recorder SUVI® 50 or configured as a CNC machine with the SUVI® 400. The different versions are listed on the following pages.
- (as described below, including transport packaging, without accessories)

	d-d [mm]	Performance	Code	kg	
PF 3 25 125	75 - 250	230 V/2490 W	**790 115 192**	181,000	
	75 - 250	115 V/2490 W	**790 115 195**	181,000	

Basic machine

- High precision design, distortion-free and sturdy machine bed
- Good accessibility thanks to 35° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Heater release mechanism to optimize the changeover phase
- Easy to remove left clamping element for fusion in tight spaces and for fittings such as T-pieces or bends d 250 mm
- Double clamping device for secure hold and exact radial and axial alignment of components
- Knurled handles for easy opening and closing of clamping brackets without additional tools
- Machine specific tool set

	Code	kg	
PF 3 25 125	**790 115 182**	54,000	

Automatic heating element

- High performance heating element with electronic, continuously adjustable temperature control
- High temperature accuracy over the entire heating surface
- Heating element temperature adjustable via rotary switch
- High-quality, non-stick PTFE-coating with long service life
- Easy placement in the correct working position with automatic heater release mechanism

	d-d [mm]	Performan-ce	Code	kg	
PF 3 25 117	75 - 250	230 V/1500	**790 115 189**	14,000	
	75 - 250	115 V/1500	**790 115 190**	0,001	

PF 3 25 117

Case

- For safe storage of planer and automatic heating element

Code	kg	
790 115 183	17,100	

Machines for Processing Plastic-Pipes

GF 250 CNC Butt fusion machine

PF 3 25 125

Machine complete

- For fusion jointing of PP and PE pipes and fittings. The automatic CNC, hydraulically-operated butt fusion machines are designed for applications in gas and water distribution piping systems as well as for use in trenches, outdoors or in the workshop.
- The CNC control unit (SUVI® 400) controls and regulates the complete fusion process according to the approved national guidelines (e.g. DVS guidelines).
- All fusion parameters (set/actual comparison) are recorded on a memory card and can be called up and shown on the display. External fusion data processing is easy with the exchangeable memory card or with the build-in interface for the PC, printer or laptop. The integrated error analysis system recognizes deviations from the defined parameters and interrupts the fusion cycle while simultaneously recording the error source.
- **SUVI® 400 CNC - Control unit**
- This unit consists of the hydraulic and the control unit with data recording
- Automatic control of planing with even-out function
- Automatically controlled temperature of the heating element
- Automatically controlled facing process
- Minimal weight of complete CNC control unit with two handles for carrying
- Tamper-safe, easy data recording with exchangeable memory card (256 kB)
- Clear overview, 2-line LCD with backlighting
- Temperature sensor for accurate recording of ambient temperature
- Serial interface (RS 232, 9-in) to connect PCs or laptops
- Parallel standard printer interface (Centronics)
- Safe two-handed operation according to TÜV for machine carriage movement
- Barcode reader for data input (optional)
- **Base machine**
- Technical features as for manual versions
- CNC: distance measurement system for accurate control of fusion slide (safety, monitoring fusion cycle, process monitoring)
- **Planer, Heating element, Hydraulic hose package, Case, Tool set**
- Technical features same as for manually operated machines

d-d [mm]	Performance	Type	Code	kg	
75 - 250	230 V/2490 W		**790 115 069**	175,000	
75 - 250	115 V/2490 W		**790 115 068**	175,000	
75 - 250	230 V/2490 W	Russian	**790 115 067**	175,000	
75 - 250	230 V/2490 W	Chinese	**790 115 178**	175,000	

Machines for Processing Plastic-Pipes

GF 250 CNC Butt fusion machine with automatic heating element

Machine complete

- For fusion jointing of PP and PE pipes and fittings. The automatic CNC, hydraulically-operated butt fusion machines are designed for applications in gas and water distribution piping systems as well as for use in trenches, outdoors or in the workshop.
- The CNC control unit (SUVI® 400) controls and regulates the complete fusion process according to the approved national guidelines (e.g. DVS guidelines).
- All fusion parameters (set/actual comparison) are recorded on a memory card and can be called up and shown on the display. External fusion data processing is easy with the exchangeable memory card or with the build-in interface for the PC, printer or laptop. The integrated error analysis system recognizes deviations from the defined parameters and interrupts the fusion cycle while simultaneously recording the error source.
- **SUVI® 400 CNC - Control unit**
- This unit consists of the hydraulic and the control unit with data recording
- Automatically controlled fusion cycle with built-in linear measurement unit (safety)
- Automatically controlled temperature of the heating element
- Automatically controlled facing process
- User-friendly operation (keyboard)
- Minimal weight of complete CNC control unit with two handles for carrying
- Tamper-safe, easy data recording with exchangeable memory card (256 kB)
- Clear overview, 2-line LCD with backlighting
- Temperature sensor for accurate recording of ambient temperature
- Serial interface (RS 232, 9-in) to connect PCs or laptops
- Parallel standard printer interface (Centronics)
- Safe two-handed operation according to TÜV for machine carriage movement
- Barcode reader for data input (optional)
- Technical features as for manual versions
- CNC: distance measurement system for accurate control of fusion slide (safety, monitoring fusion cycle, process monitoring)
- **Base machine**
- Built-in linear measurement unit for accurate slide positioning (safety, control of the fusion pressure build-up, control of the automatic fusion steps)
- **Planer, Heating element, Hydraulic hose package, Case, Tool set**
- Technical features same as for manually operated machines
- In the **fully automatic** version, the heating element is pleaced manually by the operator and after the heat soak phase automatically removed from the woking position.

d-d [mm]	Performance	Type	Code	kg	
75 - 250	230 V/2490 W		**790 115 191**	175,000	
75 - 250	115 V/2490 W		**790 115 194**	175,000	
75 - 250	230 V/2490 W	Russian	**790 115 179**	175,000	
75 - 250	230 V/2490 W	Chinese	**790 115 184**	175,000	

PF 3 25 125

Machines for Processing Plastic-Pipes

GF 250 Accessoires

Reduction clamping inserts, wide

- d 75 - 225 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	Code	kg	
75	**790 115 028**	0,815	
90	**790 115 008**	0,835	
110	**790 115 009**	0,825	
125	**790 115 010**	0,785	
140	**790 115 011**	0,735	
160	**790 115 012**	0,695	
180	**790 115 013**	0,660	
200	**790 115 014**	0,715	
225	**790 115 015**	0,465	

PF 3 25 117

Reduction clamping inserts, narrow

- d 75 - 225 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	Code	kg	
75	**790 115 029**	0,740	
90	**790 115 016**	0,715	
110	**790 115 017**	0,690	
125	**790 115 018**	0,680	
140	**790 115 019**	0,625	
160	**790 115 020**	0,595	
180	**790 115 021**	0,520	
200	**790 115 022**	0,455	
225	**790 115 023**	0,390	

PF 3 25 117

Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension

d-d [mm]	Code	kg	
75 - 225	**790 115 156**	48,000	

PF 3 25 117

Special clamping bracket tapered

- For clamping of fittings d 250 mm
- For left-sided mounting (stationary side) with shell adapter
- Version for right-sided mounting (slide)
- L = left
- R = right

d [mm]	Type	Code	kg	
250	L	**790 115 025**	1,825	
250	R	**790 115 026**	1,490	

PF 3 25 117

Machines for Processing Plastic-Pipes

PF 3 25 117

Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

d [mm]	Code	kg	
250	**790 115 045**	9,600	

PF 3 25 117

1 Set planer blades

- Blade has 2 cutting edges (1 set = 2 blades)

Code	kg	
790 115 024	0,060	

Machines for Processing Plastic-Pipes

GF 315 Butt fusion machine manual

PF 3 25 127

Machine complete

- High quality, long-lasting heating element butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings. Size range d 90-315 mm, for complete pressure range up to PN 16.
- The GF315 butt fusion machine could be assembled with the data recorder SUVI® 50 or configured as a CNC machine with the SUVI® 400. The different versions are listed on the following pages.
- (as described below, including transport packaging, without accessories)

d-d [mm]	Performance	Code	kg	
90 - 315	230 / 400 V/4170 W	**790 112 079**	217,600	
90 - 315	115 / 200 V/4170 W	**790 112 180**	212,000	

PF 3 25 127

Basic machine

- High precision design, distortion-free and sturdy machine bed
- Good accessibility thanks to 35° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Heater release mechanism to optimize the changeover phase
- Easy to remove left clamping element for fusion in tight spaces and for fittings such as T-pieces or bends d 315 mm
- Double clamping device for secure hold and exact radial and axial alignment of components
- Knurled handles for easy opening and closing of clamping brackets without additional tools
- Machine specific tool set

d-d [mm]	Code	kg	
90 - 315	**790 112 081**	60,000	

PF 3 25 117

Planer

- Powerful parallel planer for single or double-sided facing of pipe ends
- Load transfer via maintenance-free, robust worm drive
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg	
90 - 315	230 V/1100 W	**790 112 082**	18,000	
90 - 315	115 V/1100 W	**790 112 186**	18,000	

Machines for Processing Plastic-Pipes

PF 3 25 117

Heating element

- High performance heating element with electronic, continuously adjustable temperature control
- High temperature accuracy over the entire heating surface
- Heating element temperature adjustable via rotary switch
- High-quality, non-stick PTFE-coating with long service life
- Easy placement in the correct working position with heater release mechanism

d-d [mm]	Performance	Code	kg	
90 - 315	230 V/2300 W	**790 112 083**	11,700	
90 - 315	115 V/2300 W	**790 112 187**	11,700	

PF 3 25 117

Hydraulic unit

- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Memory for automatic pressure equalization during the cooling phase
- Push-buttons to open and close the machine
- Pressure release button for optimal changeover from equalization phase to the heat soak phase
- Three integrated power outlets (planer, heating element, free)
- Easy level control and refilling of hydraulic oil
- Easy access FI protective switch for increased personal safety

Performance	Code	kg	
230 V/370 W	**790 112 113**	30,000	
115 V/370 W	**790 112 188**	30,000	

PF 3 25 117

Case

- For safe storage of planer and automatic heating element

Code	kg	
790 112 086	21,000	

Machines for Processing Plastic-Pipes

GF 315 Butt fusion machine with automatic heating element

PF 3 25 127

Machine complete

- High quality, long-lasting heating element butt fusion machine with automatic heating element for fusion jointing PP, PE and PVDF pipes and fittings. Size range d 90-315 mm, for complete pressure range up to PN 16.
- The GF315 butt fusion machine could be assembled with the data recorder SUVI® 50 or configured as a CNC machine with the SUVI® 400. The different versions are listed on the following pages.
- (as described below, including transport packaging, without accessories)

d-d [mm]	Performance	Code	kg	
90 - 315	230V/4170 W	**790 112 192**	217,000	
90 - 315	115V/4170 W	**790 112 195**	217,000	

PF 3 25 127

Basic machine

- High precision design, distortion-free and sturdy machine bed
- Good accessibility thanks to 35° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Heater release mechanism to optimize the changeover phase
- Easy to remove left clamping element for fusion in tight spaces and for fittings such as T-pieces or bends d 315 mm
- Double clamping device for secure hold and exact radial and axial alignment of components
- Knurled handles for easy opening and closing of clamping brackets without additional tools
- Machine specific tool set

d-d [mm]	Code	kg	
90 - 315	**790 112 182**	63,000	

PF 3 25 117

Automatic heating element

- High performance heating element with electronic, continuously adjustable temperature control
- High temperature accuracy over the entire heating surface
- Heating element temperature adjustable via rotary switch
- High-quality, non-stick PTFE-coating with long service life
- Easy placement in the correct working position with automatic heater release mechanism

d-d [mm]	Performance	Code	kg	
90 - 315	230 V/2500 W	**790 112 189**	15,000	
90 - 315	115 V/2500 W	**790 112 190**	10,000	

PF 3 25 117

Case

- For safe storage of planer and automatic heating element

Code	kg	
790 112 183	7,000	

Machines for Processing Plastic-Pipes

GF 315 CNC Butt fusion machine

PF 3 25 127

Machine complete

- For fusion jointing of PP and PE pipes and fittings. The automatic CNC, hydraulically-operated butt fusion machines are designed for applications in gas and water distribution piping systems as well as for use in trenches, outdoors or in the workshop.
- The CNC control unit (SUVI® 400) controls and regulates the complete fusion process according to the approved national guidelines (e.g. DVS guidelines).
- All fusion parameters (set/actual comparison) are recorded on a memory card and can be called up and shown on the display. External fusion data processing is easy with the exchangeable memory card or with the build-in interface for the PC, printer or laptop. The integrated error analysis system recognizes deviations from the defined parameters and interrupts the fusion cycle while simultaneously recording the error source.
- **SUVI® 400 CNC - Control unit**
- This unit consists of the hydraulic and the control unit with data recording
- Automatic control of planing with even-out function
- Automatically controlled temperature of the heating element
- Automatically controlled facing process
- Minimal weight of complete CNC control unit with two handles for carrying
- Tamper-safe, easy data recording with exchangeable memory card (256 kB)
- Clear overview, 2-line LCD with backlighting
- Temperature sensor for accurate recording of ambient temperature
- Serial interface (RS 232, 9-in) to connect PCs or laptops
- Parallel standard printer interface (Centronics)
- Safe two-handed operation according to TÜV for machine carriage movement
- Barcode reader for data input (optional)
- **Base machine**
- Technical features as for manual versions
- CNC: distance measurement system for accurate control of fusion slide (safety, monitoring fusion cycle, process monitoring)
- **Planer, Heating element, Hydraulic hose package, Case, Tool set**
- Technical features same as for manually operated machines

d-d [mm]	Performance	Type	Code	kg	
90 - 315	230 V/4170 W		**790 112 069**	213,000	
90 - 315	115 V/4170 W		**790 112 068**	213,000	
90 - 315	230 V/4170 W	Russian	**790 112 067**	213,000	
90 - 315	230 V/4170 W	Chinese	**790 112 178**	213,000	

Machines for Processing Plastic-Pipes

GF 315 CNC Butt fusion machine with automatic heating element

Machine complete

- For fusion jointing of PP and PE pipes and fittings. The automatic CNC, hydraulically-operated butt fusion machines are designed for applications in gas and water distribution piping systems as well as for use in trenches, outdoors or in the workshop.
- The CNC control unit (SUVI® 400) controls and regulates the complete fusion process according to the approved national guidelines (e.g. DVS guidelines).
- All fusion parameters (set/actual comparison) are recorded on a memory card and can be called up and shown on the display. External fusion data processing is easy with the exchangeable memory card or with the build-in interface for the PC, printer or laptop. The integrated error analysis system recognizes deviations from the defined parameters and interrupts the fusion cycle while simultaneously recording the error source.
- **SUVI® 400 CNC - Control unit**
- This unit consists of the hydraulic and the control unit with data recording
- Automatically controlled fusion cycle with built-in linear measurement unit (safety)
- Automatically controlled temperature of the heating element
- Automatically controlled facing process
- User-friendly operation (keyboard)
- Minimal weight of complete CNC control unit with two handles for carrying
- Tamper-safe, easy data recording with exchangeable memory card (256 kB)
- Clear overview, 2-line LCD with backlighting
- Temperature sensor for accurate recording of ambient temperature
- Serial interface (RS 232, 9-in) to connect PCs or laptops
- Parallel standard printer interface (Centronics)
- Safe two-handed operation according to TÜV for machine carriage movement
- Barcode reader for data input (optional)
- Technical features as for manual versions
- Barcode reader for pipe code (logbook recording. Optional)
- **Base machine**
- Built-in linear measurement unit for accurate slide positioning (safety, control of the fusion pressure build-up, control of the automatic fusion steps)
- **Planer, Heating element, Hydraulic hose package, Case, Tool set**
- Technical features same as for manually operated machines
- In the **fully automatic** version, the heating element is pleaced manually by the operator and after the heat soak phase automatically removed from the woking position.

d-d [mm]	Performance	Type	Code	kg	
90 - 315	230 V/4170 W		**790 112 191**	213,000	
90 - 315	115 V/4170 W		**790 112 194**	213,000	
90 - 315	230 V/4170 W	Russian	**790 112 179**	213,000	
90 - 315	230 V/4170 W	Chinese	**790 112 184**	213,000	

PF 3 25 127

Machines for Processing Plastic-Pipes

GF 315 Accessories

Reduction clamping inserts, wide

- d 90 - 280 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	Code	kg	
90	**790 112 088**	1,000	
110	**790 112 089**	1,050	
125	**790 112 090**	0,988	
140	**790 112 091**	0,975	
160	**790 112 092**	1,062	
180	**790 112 093**	0,988	
200	**790 112 094**	0,937	
225	**790 112 095**	0,975	
250	**790 112 096**	0,937	
280	**790 112 097**	0,800	

PF 3 25 117

Reduction clamping inserts, narrow

- d 90 - 280 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	Code	kg	
90	**790 112 098**	0,995	
110	**790 112 099**	1,285	
125	**790 112 100**	1,245	
140	**790 112 101**	1,205	
160	**790 112 102**	1,135	
180	**790 112 103**	1,010	
200	**790 112 104**	0,950	
225	**790 112 105**	0,865	
250	**790 112 106**	0,770	
280	**790 112 107**	0,560	

PF 3 25 117

Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension

d-d [mm]	Code	kg	
90 - 280	**790 112 156**	78,000	

PF 3 25 117

Machines for Processing Plastic-Pipes

PF 3 25 117

Special clamping bracket tapered

- For clamping of fittings 315 mm
- For left-sided mounting (stationary side) with shell adapter
- Version for right-sided mounting (slide)
- L = left
- R = right

d [mm]	Type	Code	kg	
315	L	**790 112 111**	2,780	
315	R	**790 112 112**	2,335	

PF 3 25 117

Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

d-d [mm]	Code	kg	
90 - 315	**790 112 038**	15,400	

PF 3 25 117

1 Set planer blades

- Blade has 2 cutting edges (1 set = 2 blades)

Code	kg	
790 112 110	0,115	

Machines for Processing Plastic-Pipes

GF 400 Butt fusion machine

PF 3 25 870

GF 400

- High quality, long-lasting heating element butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings. For complete pressure range up to PN 16.
- Machine complete with remote control

d-d [mm]	Performance	Code	kg	
125 - 400	230 V/5700 W	**790 127 001**	210,000	

PF 3 25 870

Machine GF 400 complete, 400 V

- The GF400 butt fusion machine could be assembled with the data recorder SUVI® 50 or configured as a CNC machine with the SUVI® 400. The different versions are listed on the following pages.
- High quality, long-lasting heating element butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings. For complete pressure range up to PN 16.

d-d [mm]	Performance	Code	kg	
125 - 400	400 V/5700 W	**790 127 010**	250,000	

PF 3 25 117

Basic machine

- High precision design, distortion-free and sturdy machine bed
- Good accessibility thanks to 35° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Heater release mechanism to optimize the changeover phase
- For the purpose of welding bends and T-pieces the 2. clamping element is fast and without loosing stability on the guiding shafts relocatable
- Double clamping device for secure hold and exact radial and axial alignment of components
- Machine specific tool set

d-d [mm]	Code	kg	
125 - 400	**790 127 002**	95,000	

PF 3 25 117

Planer

- Powerful parallel planer for single or double-sided facing of pipe ends
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg	
125 - 400	230 V/1100 W	**790 127 003**	39,000	

Machines for Processing Plastic-Pipes

PF 3 25 117

Heating element

- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Easy placement in the correct working position with heater release mechanism

d-d [mm]	Performance	Code	kg	
125 - 400	230 V/3500 W	**790 127 004**	15,000	

PF 3 25 117

Hydraulic unit

- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Memory for automatic pressure equalization during the cooling phase
- Easy level control and refilling of hydraulic oil

Performance	Code	kg	
400 V/1500 W	**790 127 006**	40,000	

PF 3 25 117

Control box

- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame

Performan-ce	Code	
400 V	**790 127 008**	

PF 3 25 117

Case

- For safe storage of planer and automatic heating element

Code	kg	
790 127 005	29,000	

Machines for Processing Plastic-Pipes

GF 400 CNC Butt fusion machine

PF 3 25 870

Machine complete

- For fusion jointing of PP and PE pipes and fittings. The automatic CNC, hydraulically-operated butt fusion machines are designed for applications in gas and water distribution piping systems as well as for use in trenches, outdoors or in the workshop.
- The CNC control unit (SUVI® 400) controls and regulates the complete fusion process according to the approved national guidelines (e.g. DVS guidelines).
- All fusion parameters (set/actual comparison) are recorded on a memory card and can be called up and shown on the display. External fusion data processing is easy with the exchangeable memory card or with the build-in interface for the PC, printer or laptop. The integrated error analysis system recognizes deviations from the defined parameters and interrupts the fusion cycle while simultaneously recording the error source.
- **SUVI® 400 CNC - Control unit**
- This unit consists of the hydraulic and the control unit with data recording
- Automatic control of planing with even-out function
- Automatically controlled temperature of the heating element
- Automatically controlled facing process
- Minimal weight of complete CNC control unit with two handles for carrying
- Tamper-safe, easy data recording with exchangeable memory card (256 kB)
- Clear overview, 2-line LCD with backlighting
- Temperature sensor for accurate recording of ambient temperature
- Serial interface (RS 232, 9-in) to connect PCs or laptops
- Parallel standard printer interface (Centronics)
- Safe two-handed operation according to TÜV for machine carriage movement
- Barcode reader for data input (optional)
- **Base machine**
- Technical features as for manual versions
- CNC: distance measurement system for accurate control of fusion slide (safety, monitoring fusion cycle, process monitoring)
- **Planer, Heating element, Hydraulic hose package, Case, Tool set**
- Technical features same as for manually operated machines

d-d [mm]	Performance	Type	Code	kg	
125 - 400	230 V/5510 W		**790 127 069**	200,000	
125 - 400	230 V/5510 W	Russian	**790 127 070**	200,000	

Machines for Processing Plastic-Pipes

GF 400 Accessories

Hoist unit

- For carrying the weight compensator Mounted at the backside of the basic machine
- Weight compensator included

Code	
790 127 026	

Reduction clamping inserts, wide

- d 125-355 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

In order to mount the inserts d 125/d 140/d 160/d 180/d 200/d 225/d 250/d 280, the reduction clamping insert d 315 mm, code 790 127 101, must also be used

d [mm]	Code	kg	
125	**790 112 090**	0,988	
140	**790 112 091**	0,975	
160	**790 112 092**	1,062	
180	**790 112 093**	0,988	
200	**790 112 094**	0,937	
225	**790 112 095**	0,975	
250	**790 112 096**	0,937	
280	**790 112 097**	0,800	
315	**790 127 101**	1,810	
355	**790 127 102**	1,650	

PF 3 25 117

Reduction clamping inserts, narrow

- d 125-355 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

In order to mount the inserts d 125/d 140/d 160/d 180/d 200/d 225/d 250/d 280, the reduction clamping insert d 315 mm, code 790 127 101, must also be used

d [mm]	Code	kg	
125	**790 112 100**	1,245	
140	**790 112 101**	1,205	
160	**790 112 102**	1,135	
180	**790 112 103**	1,010	
200	**790 112 104**	0,950	
225	**790 112 105**	0,865	
250	**790 112 106**	0,770	
280	**790 112 107**	0,560	
315	**790 127 111**	1,180	
355	**790 127 112**	0,910	

PF 3 25 117

Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension
- 8 wide clamping inserts d 315 mm

d-d [mm]	Code	kg	
125 - 355	**790 127 156**	30,000	

PF 3 25 117

Machines for Processing Plastic-Pipes

GF 500 Butt fusion machine

PF 3 25 126

Machine GF 500 complete

- High quality, long-lasting heating element butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings. Size range d 200-500 mm, for complete pressure range up to PN 16.
- The GF500 butt fusion machine could be assembled with the data recorder SUVI® 50 or configured as a CNC machine with the SUVI® 400. The different versions are listed on the following pages.
- (as described below, including transport packaging, without accessories)

d-d [mm]	Performance	Code	kg	
200 - 500	400 V/6250 W	**790 116 040**	498,000	

PF 3 25 126

Basic machine

- High precision design, distortion-free and sturdy machine bed
- Good accessibility thanks to 35° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Heater release mechanism to optimize the changeover phase
- For the purpose of welding bends and T-pieces the 2. clamping element is fast and without loosing stability on the guiding shafts relocatable
- Double clamping device for secure hold and exact radial and axial alignment of components
- Machine specific tool set

d-d [mm]	Code	kg	
200 - 500	**790 116 002**	174,000	

PF 3 25 117

Planer

- Powerful parallel planer for single or double-sided facing of pipe ends
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg	
200 - 500	400 V/750 W	**790 116 003**	53,600	

PF 3 25 117

Heating element

- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Easy placement in the correct working position with heater release mechanism

d-d [mm]	Performance	Code	kg	
200 - 500	400 V/4000 W	**790 116 004**	26,000	

Machines for Processing Plastic-Pipes

PF 3 25 117

Hydraulic unit

- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Memory for automatic pressure equalization during the cooling phase
- Easy level control and refilling of hydraulic oil

Performance	Code	kg	
400 V/1500 W	**790 116 039**	38,000	

PF 3 25 117

Control box

- 400 V
- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame

Code	kg	
790 116 038	15,500	

PF 3 25 117

Hydraulic hose package

- Flexible hydraulic hoses, with drip-proof, quick action coupling

Code	kg	
790 112 085	4,250	

PF 3 25 117

Case

- For safe storage of planer and automatic heating element

Code	kg	
790 116 006	41,000	

Machines for Processing Plastic-Pipes

GF 500 CNC Butt fusion machine

Machine complete

- For fusion jointing of PP and PE pipes and fittings. The automatic CNC, hydraulically-operated butt fusion machines are designed for applications in gas and water distribution piping systems as well as for use in trenches, outdoors or in the workshop.
- The CNC control unit (SUVI® 400) controls and regulates the complete fusion process according to the approved national guidelines (e.g. DVS guidelines).
- All fusion parameters (set/actual comparison) are recorded on a memory card and can be called up and shown on the display. External fusion data processing is easy with the exchangeable memory card or with the build-in interface for the PC, printer or laptop. The integrated error analysis system recognizes deviations from the defined parameters and interrupts the fusion cycle while simultaneously recording the error source.
- **SUVI® 400 CNC - Control unit**
- This unit consists of the hydraulic and the control unit with data recording
- Automatic control of planing with even-out function
- Automatically controlled temperature of the heating element
- Automatically controlled facing process
- Minimal weight of complete CNC control unit with two handles for carrying
- Tamper-safe, easy data recording with exchangeable memory card (256 kB)
- Clear overview, 2-line LCD with backlighting
- Temperature sensor for accurate recording of ambient temperature
- Serial interface (RS 232, 9-in) to connect PCs or laptops
- Parallel standard printer interface (Centronics)
- Safe two-handed operation according to TÜV for machine carriage movement
- Barcode reader for data input (optional)
- **Base machine**
- Technical features as for manual versions
- CNC: distance measurement system for accurate control of fusion slide (safety, monitoring fusion cycle, process monitoring)
- **Planer, Heating element, Hydraulic hose package, Case, Tool set**
- Technical features same as for manually operated machines

d-d [mm]	Performance	Type	Code	kg	
200 - 500	400 V/6250 W		**790 116 069**	476,000	
200 - 500	400 V/6250 W	Russian	**790 116 067**	476,000	
200 - 500	400 V/6250 W	Chinese	**790 116 178**	476,000	

PF 3 25 126

Machines for Processing Plastic-Pipes

GF 500 Accessories

Reduction clamping inserts, wide

- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

In order to mount the inserts d 200/d 225, the reduction clamping insert 790 116 015 must also be used

d [mm]	Code	kg	
200	**790 116 008**	4,160	
225	**790 116 009**	3,300	
250	**790 116 010**	3,300	
280	**790 116 011**	3,500	
315	**790 116 012**	3,600	
355	**790 116 013**	3,700	
400	**790 116 014**	3,400	
450	**790 116 015**	3,500	

PF 3 25 117

Reduction clamping inserts, narrow

- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

In order to mount the inserts d 200/d 225, the reduction clamping insert 790 116 015 must also be used

d [mm]	Code	kg	
200	**790 116 016**	3,680	
225	**790 116 017**	4,100	
250	**790 116 018**	4,100	
280	**790 116 019**	3,800	
315	**790 116 020**	3,500	
355	**790 116 021**	3,200	
400	**790 116 022**	2,500	
450	**790 116 023**	2,500	

PF 3 25 117

Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension

d-d [mm]	Code	kg	
250 - 450	**790 116 156**	162,000	

PF 3 25 117

Hoist unit, complete

- For carrying the weight compensator Mounted at the backside of the basic machine
- Hoist unit (consists of frame and swivel arm)

Performance	Code	kg	
230 V/500 W/50 Hz	**790 116 026**	22,000	
230 V/500 W/50 Hz	**790 140 026**	22,000	

PF 3 25 117

Machines for Processing Plastic-Pipes

Weight compensator

- For heating element, planer weight is partly compensated

	Code	kg	
PF 3 25 117	**790 116 027**	12,500	

Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

	d [mm]	Code	kg	
PF 3 25 117	450	**790 116 045**	19,000	

1 Set planer blades

- Blade has 2 cutting edges (1 set = 2 blades)

	Code	kg	
PF 3 25 117	**790 116 041**	0,700	

Machines for Processing Plastic-Pipes

GF 630 Butt fusion machine

Machine GF 630 complete

- High quality, long-lasting heating element butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings. Size range d 315-630 mm, for complete pressure range up to PN 16.
- The GF630 butt fusion machine could be assembled with the data recorder SUVI® 50 or configured as a CNC machine with the SUVI® 400. The different versions are listed on the following pages.
- (as described below, including transport packaging, without accessories)

	d-d [mm]	Performance	Code	kg	
PF 3 25 136	315 - 630	400 V/11000 W	**790 117 001**	589,000	

Basic machine

- High precision design, distortion-free and sturdy machine bed
- Good accessibility thanks to 45° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Heater release mechanism
- Double clamping device for secure hold and exact radial and axial alignment of components
- Machine specific tool set

	d-d [mm]	Code	kg	
PF 3 25 136	315 - 630	**790 117 002**	225,000	

Planer

- Powerful parallel planer for single or double-sided facing of pipe ends
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

	d-d [mm]	Performance	Code	kg	
PF 3 25 117	315 - 630	400 V/1500 W	**790 117 003**	98,000	

Heating element

- High performance heating element with electronic, continuously adjustable temperature control
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Easy placement in the correct working position with heater release mechanism

	d-d [mm]	Performance	Code	kg	
PF 3 25 117	315 - 630	400 V/8000 W	**790 117 004**	36,000	

Machines for Processing Plastic-Pipes

Hydraulic unit

- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Memory for automatic pressure equalization during the cooling phase
- Easy level control and refilling of hydraulic oil

Code	kg	
790 116 039	38,000	

PF 3 25 117

Control box

- 400 V
- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame

Code	kg	
790 117 038	14,000	

PF 3 25 117

Case

- For safe storage of planer and automatic heating element

Code	kg	
790 117 006	55,000	

Machines for Processing Plastic-Pipes

GF 630 CNC Butt fusion machine

Machine complete

- For fusion jointing of PP and PE pipes and fittings. The automatic CNC, hydraulically-operated butt fusion machines are designed for applications in gas and water distribution piping systems as well as for use in trenches, outdoors or in the workshop.
- The CNC control unit (SUVI® 400) controls and regulates the complete fusion process according to the approved national guidelines (e.g. DVS guidelines).
- All fusion parameters (set/actual comparison) are recorded on a memory card and can be called up and shown on the display. External fusion data processing is easy with the exchangeable memory card or with the build-in interface for the PC, printer or laptop. The integrated error analysis system recognizes deviations from the defined parameters and interrupts the fusion cycle while simultaneously recording the error source.
- **SUVI® 400 CNC - Control unit**
- This unit consists of the hydraulic and the control unit with data recording
- Automatic control of planing with even-out function
- Automatically controlled temperature of the heating element
- Automatically controlled facing process
- Minimal weight of complete CNC control unit with two handles for carrying
- Tamper-safe, easy data recording with exchangeable memory card (256 kB)
- Clear overview, 2-line LCD with backlighting
- Temperature sensor for accurate recording of ambient temperature
- Serial interface (RS 232, 9-in) to connect PCs or laptops
- Parallel standard printer interface (Centronics)
- Safe two-handed operation according to TÜV for machine carriage movement
- Barcode reader for data input (optional)
- **Base machine**
- Technical features as for manual versions
- CNC: distance measurement system for accurate control of fusion slide (safety, monitoring fusion cycle, process monitoring)
- **Planer, Heating element, Hydraulic hose package, Case, Tool set**
- Technical features same as for manually operated machines

d-d [mm]	Performance	Type	Code	kg	
315 - 630	400 V/11000 W		**790 117 069**	613,000	
315 - 630	400 V/11000 W	Russian	**790 117 067**	613,000	
315 - 630	400 V/11000 W	Chinese	**790 117 178**	613,000	

PF 3 25 136

Machines for Processing Plastic-Pipes

GF 630 Accessories

Reduction clamping inserts, wide

- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

In order to mount the inserts d 315/d 355/d 400/d 450, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

d [mm]	Code	kg
315	**790 116 012**	3,600
355	**790 116 013**	3,700
400	**790 116 014**	3,400
450	**790 116 015**	3,500
500	**790 117 012**	4,600
560	**790 117 013**	4,300

PF 3 25 117

Reduction clamping inserts, narrow

- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

In order to mount the inserts d 315/d 355/d 400/d 450, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

d [mm]	Code	kg
315	**790 116 020**	3,500
355	**790 116 021**	3,200
400	**790 116 022**	2,500
450	**790 116 023**	2,500

Hoist unit, complete

- Hoist unit (consists of frame and swivel arm)
- Arm length 2m, pivoting, back/forward, max. column height from floor 3.30m
- Electrical unit 400 V / 600 W
- Hoist capacity 250 kg
- 2 hoisting speeds (1,7 m/min. and 7.0 m/min.)

Code	kg
790 117 023	196,000

PF 3 25 117

Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

d [mm]	Code	kg
560	**790 117 029**	27,000

PF 3 25 117

1 Set planer blades

- Blade has 2 cutting edges (1 set = 2 blades)

Code	kg
790 117 041	0,470

PF 3 25 117

Machines for Processing Plastic-Pipes

GF 800 Butt fusion machine

Machine GF 800 complete

PF 3 25 136

- Robust heating element-butt fusion machine for fusion jointing PP and PE pipes and fittings. Size range d 500-800 mm.
- The GF 800 butt fusion machine could be assembled with the data recorder SUVI® 50.
- (as described below, including transport packaging, without accessories)

d-d [mm]	Performance	Code	kg	
500 - 800	400 V/15000 W	**790 123 001**	1546,000	

Basic machine

PF 3 25 136

- Heater release mechanism
- High precision design, distortion-free and sturdy machine bed
- Good accessibility thanks to 45° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Double clamping device for secure hold and exact radial and axial alignment of components
- Machine specific tool set

d-d [mm]	Code	kg	
500 - 800	**790 123 002**	690,000	

Planer

PF 3 25 117

- Powerful parallel planer for single or double-sided facing of pipe ends 400 V/1500 W
- Load transfer via maintenance-free chain drive
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg	
500 - 800	400 V/1500 W	**790 123 003**	175,000	

Heating element

PF 3 25 117

- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Easy placement in the correct working position with heater release mechanism

d-d [mm]	Performance	Code	kg	
500 - 800	400 V/12000 W	**790 123 004**	56,000	

Machines for Processing Plastic-Pipes

PF 3 25 117

Hydraulic unit

- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Memory for automatic pressure equalization during the cooling phase
- Easy level control and refilling of hydraulic oil

Performance	Code	kg	
400 V/1500 W	**790 123 005**	38,000	

PF 3 25 117

Control box

- 400 V
- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame

Code	kg	
790 123 009	29,000	

PF 3 25 117

Hydraulic hose package

- Flexible hydraulic hoses, with drip-proof, quick action coupling

Code	kg	
790 123 006	6,000	

PF 3 25 117

Case

- For safe storage of planer and automatic heating element

Code	kg	
790 123 007	230,000	

Machines for Processing Plastic-Pipes

GF 800 Accessories

PF 3 25 117

Reduction clamping inserts, wide

- d 500 - 710 mm
- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.

In order to mount the inserts d 500/d 560, the reduction clamping insert d 630, code 790 123 011 must also be used

d [mm]	Code	kg	
500	**790 117 012**	4,600	
560	**790 117 013**	4,300	
630	**790 123 011**	11,000	
710	**790 123 012**	9,500	

PF 3 25 117

Electric Hoist unit

- Hoist capacity 500 kg
- Arm length 2m, pivoting, back/forward, max. column height from floor 4.65 m, 2 hoisting speeds (2.5 m/min. and 5.5 m/min.)

Code	kg	
790 123 016	270,000	

Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

d-d [mm]	Code	kg	
500 - 800	**790 123 029**	120,000	

PF 3 25 117

PF 3 25 137

1 Set planer blades

- Blade has 2 cutting edges (1 set = 2 blades)

Code	kg	
790 123 021	0,600	

Machines for Processing Plastic-Pipes

GF 1000 Butt fusion machine

Machine GF 1000 complete

- High quality, long-lasting heating element butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings.
- The GF 1000 butt fusion machine could be assembled with the data recorder SUVI® 50.
- (as described below, including transport packaging, without accessories)

	d-d [mm]	Performance	Code	kg	
PF 3 25 136	710 - 1000	400 V/19500 W	**790 124 001**	2528,000	

Basic machine

- High precision design, distortion-free and sturdy machine bed
- Good accessibility thanks to 45° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Double clamping device for secure hold and exact radial and axial alignment of components
- Machine specific tool set

	d-d [mm]	Code	kg	
PF 3 25 136	710 - 1000	**790 124 002**	1240,000	

Planer

- Powerful parallel planer for single or double-sided facing of pipe ends
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

	d-d [mm]	Performance	Code	kg	
PF 3 25 117	710 - 1000	400 V/3000 W	**790 124 003**	325,000	

Heating element

- High performance heating element with electronic, continuously adjustable temperature control
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life

	d-d [mm]	Performance	Code	kg	
PF 3 25 117	710 - 1000	400 V/15000 W	**790 124 004**	82,000	

Machines for Processing Plastic-Pipes

Hydraulic unit

- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Memory for automatic pressure equalization during the cooling phase
- Easy level control and refilling of hydraulic oil

Performance	Code	kg	
400 V/1500 W	**790 123 005**	38,000	

Case

- For safe storage of planer and automatic heating element

Code	kg	
790 124 006	345,000	

PF 3 25 117

Machines for Processing Plastic-Pipes

GF 1000 Accessories

Reduction clamping inserts, wide

- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 reduction clamping inserts are needed.

In order to mount the inserts d 710, the reduction clamping insert d 800 mm, code 790 124 011, must also be used

d [mm]	Code	kg	
710	**790 123 012**	9,500	
800	**790 124 011**	19,400	
900	**790 124 012**	20,000	

Electric hoist unit

- Hoist capacity 500 kg
- Arm length 2m, pivoting, back/forward, max. column height from floor 4.65 m, 2 hoisting speeds (2.5 m/min. and 5.5 m/min.)

PF 3 25 137

Code	kg	
790 124 016	300,000	

Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

PF 3 25 117

Code	kg	
790 124 029	170,000	

1 Set planer blades

- (1 set = 4 blades)

PF 3 25 137

Code	kg	
790 124 021	1,300	

Machines for Processing Plastic-Pipes

GF 1200 Butt fusion machine

Machine GF 1200 complete

- High quality, long-lasting heating element butt fusion machine for fusion jointing PP, PE and PVDF pipes and fittings.
- The GF 1200 butt fusion machine could be assembled with the data recorder SUVI® 50.
- (as described below, including transport packaging, without accessories)

	d-d [mm]	Performance	Code	kg	
PF 3 25 136	800 - 1200	400 V/20500 W	**790 125 001**	2932,000	

Basic machine

- High precision design, distortion-free and sturdy machine bed
- Good accessibility thanks to 45° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Double clamping device for secure hold and exact radial and axial alignment of components
- Tool set specified to machine

	d-d [mm]	Code	kg	
PF 3 25 136	800 - 1200	**790 125 002**	1340,000	

Planer

- Powerful parallel planer for single or double-sided facing of pipe ends
- Load transfer via maintenance-free chain drive
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

	d-d [mm]	Performance	Code	kg	
PF 3 25 117	800 - 1200	400 V/3000 W	**790 125 003**	452,000	

Heating element

- High performance heating element with electronic, continuously adjustable temperature control
- High temperature accuracy over the entire heating surface

	d-d [mm]	Performance	Code	kg	
PF 3 25 117	800 - 1200	400V/16000 W	**790 125 004**	94,000	

Machines for Processing Plastic-Pipes

PF 3 25 117

Hydraulic unit

- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Memory for automatic pressure equalization during the cooling phase
- Easy level control and refilling of hydraulic oil

Performance	Code	kg	
400 V/1500 W	**790 123 005**	38,000	

Case

- For safe storage of planer and automatic heating element

Code	kg	
790 125 006	420,000	

Machines for Processing Plastic-Pipes

GF 1200 Accessories

PF 3 25 117

Reduction clamping inserts, wide

- Each code number defines 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.

In order to mount the inserts d 800/d 900, the reduction clamping insert d 1000, code 790 125 011, must also be used.

d [mm]	Code	kg	
800	**790 124 011**	19,400	
900	**790 124 012**	20,000	
1000	**790 125 011**	20,500	

PF 3 25 117

Electric Hoist unit

- Hoist capacity 500 kg
- Arm length 2m, pivoting, back/forward, max. column height from floor 4.65 m, 2 hoisting speeds (2.5 m/min. and 5.5 m/min.)

Code	kg	
790 125 016	308,000	

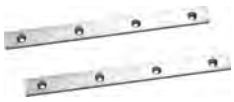
PF 3 25 117

Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

Code	kg	
790 125 029	260,000	

PF 3 25 117



1 Set planer blades

- (1 set = 4 blades)

Code	kg	
790 125 021	1,600	

PF 3 25 137

Machines for Processing Plastic-Pipes

SUVI® 50 Fusion data recording device

Inclusive:

- Protocol card 256 kB
- ACCU-Power support during circuit interruptions
- Magnetic card-Read device
- Serial printer-/PC-interface

Configuration:

- The SUVI® 50 can be configured by the operator according to his needs.
- **Languages:** all instructions as well as the protocol records are shown in the language selected by the operator.
- **Fusion parameter:** adaption to the standards and directions specific to the country.
- **Fusion operator identity card:** with the electronic identification of the operator, data recording with the SUVI®50 can be protected against misuse. The fusion operator identity card number is also used in the protocol record.
- **Job number:** facilitates job site fusion documentation.
- **Memory configuration adjustment:** makes certain that no protocol data are lost.

- **Compatible with electrofusion control unit MSA:** advantage of compatibility between butt fusion and electrofusion regarding operation and further data processing.
- **Technical specifications**
- **Working temperature range** -10 °C up to + 45 °C
- **Voltage:** 176 VAC to 276 VAC
- **Rated voltage:** 230 VAC respectively 115 VAC
- **Battery operation:** -1 hour. Built in battery with automatic charging connection
- **Standard frequency:** 47 Hz up to 65 Hz
- **Power consumption:** 60 W
- **Protection rating:** Protection class I/IP 43
- **Memory storage** on memory card; capacity 64 up to 1024 kB respctively 40 to 734 procol records and additional on internal memory storage
- **Interface:** RS 232, 4800 Baud, 7 databit, 1 Stopbit, even Parity, XON/XOFF-protocol
- **Mainscable:** length up to 4m
- **Dimensions** (without frame): length: 420 mm width: 300 mm height: 170 mm

Fusion protocol data are recorded on a memory card and can be directly called up on the SUVI® display. The use of a printer on the job site is not necessary. External data processing is nonetheless possible with the interchangeable memory card or with the built-in interface via printer or PC.

	Performan-ce	Code	kg	
PF 3 25 132	230V	**790 119 001**	9,600	

Machines for Processing Plastic-Pipes

SUVI® System Accessories

Protective guard for SUVI®400

PF 3 25 117

Code	kg	
790 119 020	4,800	

Protective guard for SUVI® 50

PF 3 25 117

Code	kg	
790 119 011	3,000	

Software PIPE WIN WELD / SUVI WIN WELD

- Professional software for analysis and documentation of installed piping systems or of a defined part of it: Pipe book. With PIPE WIN WELD it is possible to create a complete electronic documentation of the installed pipes and pipe connection elements. The software works with the data bases of MSA WIN WELD and SUVI WIN WELD. The software makes it possible to work with data from other manufacturers (CSV module for data transfer).
- The software is suitable for Windows ME/NT4/2000/XP.
- Delivery: CD-ROM, USB hardlock (PIPE WIN-WELD, PIPE WIN-WELD CSV), installation guide (manuals and additional information on CD-ROM)

Type	Code	kg	Description	
PIPE CSV	**790 119 301**	0,180	Complete package incl. CSV module for data transfer, USB hardlock	
PIPE	**790 119 302**	0,180	Complete package, USB hardlock	
SUVI	**790 119 303**	0,180	Complete package	

PF 3 25 117

Adaption cable

Code	kg	Description	
790 112 416	0,400	for planer unit (Schuko)/SUVI®400 (GF160-GF400)	

PF 3 25 117

PC-Hardware

Code	kg	Description	
799 350 335	0,190	Barcode reader pen SUVI®400	
799 350 297	0,435	Barcode reader pen for SUVI 50/100	
799 350 263	0,167	Transfer cable, serial, for SUVI 50/100	
799 350 264	0,046	Conversion connector 9 Pin/25	
799 350 385	0,095	Data transmission cable (PC connection)	

PF 2 51 306

CTC Cooling Time Control

- Controlling of the cooling phase according to the ambient temperature
- Reduction of the process time for PE up to 50% in comparison to DVS
- Currently available for GF 160 with SUVI® 400, GF 250 with SUVI® 400, GF 315 with SUVI® 400
- Access code to unlock the CTC fusion parameter

Code	kg	
790 119 274	0,002	

PF 3 25 117

Machines for Processing Plastic-Pipes

Memory Card

PF 3 25 117

	Code	kg	
1024 kB/734 records	**790 119 157**	0,030	

Connecting cables SUVI® 50

Code	kg	Description	
790 119 027	0,320	Data cable	
790 119 029	0,155	Thermo couple interface cable	
790 119 154	0,655	Cable for distance measurement SUVI® 400	

PF 3 25 117

Machines for Processing Plastic-Pipes

WR 100

WR 100 Fusion data recording device

The WR 100 supports you to ensure the quality of the jointing done according the country specific standards. The concept of the fusion data recording device enables configuration and retrofitting of hydraulically operated butt-fusion machines for field applications, appropriate listing see next page.

The whole fusion sequence is recorded and can be retraced later. The user is guided through all the fusion steps. The selection of the fusion data like the used material, diameter and wall thickness (SDR) is supported by a menu. The highly accurate recording device WR100 controls the fusion process according to the valid national guideline (e.g. DVS, WIS or UNI). Hard plastic PE case IP65 locates a printer on board.

Performance:
- Easy configuration by operator to the different GF/KL machines
- Internal memory fusion protocol with a capacity up to 100 records
- Easy user guidance
- Battery support for data recording (8 hours), no data loss during power interruption
- Configuration: User identity, Job site and order no.
- Different menu languages
- Country specific fusion parameter
- Interchangeable with SUVI 50® data logger

Data Processing:
- Individual print out directly from serial on board printer
- Collective and individual print out directly from WR 100 to external printer (only HP) (parallel interface 790 119 402)
- Collective and individual protocol download to PC using the hyper terminal communicator of windows (serial interface 790 119 403)

Power connector: Schuko, 16A
Working temperature range: -10°C up to +50°C

	Performance	Dimensions [mm]	Code	kg	
PF 3 25 132	230 V	350x300x150 mm	**790 119 401**	6,000	

Machines for Processing Plastic-Pipes

PF 3 10 573

Machines fitted with WR 100

AHE = automatic heating element

Description	Performance	Code	kg	
KL 160 TOP1 WR 100	230 V	**790 137 023**	90,000	
KL 160 TOP2 WR 100	230 V	**790 137 024**	90,000	
KL 250 TOP1 WR 100	230 V	**790 138 023**	130,000	
KL 250 TOP2 WR 100	230 V	**790 138 024**	130,000	
KL 315 TOP1 WR 100	230 V	**790 139 023**	180,000	
KL 315 TOP2 WR 100	230 V	**790 139 024**	180,000	
GF 160 WR 100	230 V	**790 114 062**	140,000	
GF 160 AHE WR 100	230 V	**790 114 194**	140,000	
GF 250 WR 100	230 V	**790 115 064**	185,000	
GF 250 AHE WR 100	230 V	**790 115 200**	185,000	
GF 315 WR 100	230 V	**790 112 119**	220,000	
GF 315 AHE WR 100	230 V	**790 112 122**	220,000	

Retrofit kits

Retrofit kit means all separate components to be assembled in the machine in order to connect the WR 100. The connection cables between the WR 100 and the hydraulic unit / heating element are content of the data recorder (790 119 401). The installation of the retrofit kits has to be done by a regional service centre or by GF Omicron.

PF 3 25 117

Description	Code	kg	
KL 160 TOP1, TOP2	**790 119 090**	1,000	
KL 250/315 TOP1, TOP2	**790 119 078**	0,001	
GF 160/250	**790 119 032**	0,300	
GF 315	**790 119 039**	0,790	

Accessories

Description	Code	
Serial/parallel printer cable (WR 100-Printer)	**790 119 402**	
Serial Data transfer cable (WR100-PC)	**790 119 403**	

Machines for Processing Plastic-Pipes

WM 315 Workshop butt fusion machine

PF 3 25 135

Machine WM 315, complete

- For the fusion jointing of PP, PE and PVDF pipes and fittings, for accurate single or series prefabrication of fittings (segment bends d 90 - 315 mm, Y and T fittings d 90 - 250 mm) for complete pressure range.
- The WM 315 can be equipped by the manufacturer with the SUVI® 50 data recording device for documentation of fusion parameters.
- Machine WM 315 including as described below basic model, planer, heater, main segment clamping unit, segment reduction clamping inserts and transport crate.

d-d [mm]	Code	kg	
90 - 315	**790 118 060**	464,000	

Basic model

- High precision design, distortion-free and sturdy machine bed
- Hardened, hard chrome plated linear guide rails for extreme loads
- Sturdy, closed machine base with separate electric and hydraulic unit
- Heater release mechanism
- Adjustable stops for accurate facing depth
- Axial alignment of the pipes on both sides by moving the base clamping tools transverse to axis direction
- **Control panel**
- Pressure selection switch to changeover between planing and fusion pressure valves for exact build-up of required planing and fusion pressures
- User-friendly, clearly arranged operating and control instruments
- Integrated, vibration-free pressure gauge with precise scaling
- Emergency stop
- Adjusting lever for moving carriage
- Permits ergonomically correct working
- **Additional standard equipment on the basic model**
- Timer to clock fusion times
- Machine specific tool set

d-d [mm]	Code	kg	
90 - 315	**790 118 061**	249,500	

PF 3 25 135

Planer

- Load transfer via enclosed, robust chain drive
- Optimised cutting geometry for even and chatter-free planing
- Powered planer to swivel in and out for single or double-sided facing of pipe ends
- Planer is secured with a stop mechanism and electric restart locking system
- Movement in axial direction

d-d [mm]	Performance	Code	kg	
90 - 315	230V/1200W	**790 118 062**	30,000	

PF 3 25 117

Machines for Processing Plastic-Pipes

Heater

- Powerful, precision heating element with electronic, freely variable temperature control 230 V / 3000 W
- High temperature accuracy over the entire heating surface
- Exact LCD adjustment of heater temperature
- High-quality, non-stick PTFE-coating with long service life

d-d [mm]	Code	kg	
90 - 315	**790 118 063**	19,000	

PF 3 25 117

Main segment clamping unit for pipes

- Wide version for accurate clamping of 315 mm pipes and for fastening reduction clamping inserts for pipes d 90 to 280 mm
- Swivel to an angle of 22.5° for 45° segment bend fusion
- Universal support plates for main segment clamping units, flange adaptor clamping unit, T- and Y-fittings clamping units, which can be moved in the axial direction to compensate wall offset
- L = left
- R = right

d [mm]	Type	Code	kg	
315	L	**790 118 064**	21,800	
315	R	**790 118 065**	21,800	

PF 3 25 117

Segment reduction clamping inserts, left and right, wide

- For clamping pipes of 90 to 280 mm, Interlock inserts

d-d [mm]	Code	kg	
90 - 280	**790 118 066**	38,000	

PF 3 25 117

WM 315 Workshop with SUVI®50

- equipped with the SUVI® 50 data recording unit

Code	kg	
790 118 070	472,000	

PF 3 25 135

Machines for Processing Plastic-Pipes

WM 315 Accessories

Base clamping unit left for fittings with adapter ring, wide

PF 3 25 117

- For clamping fittings of 315 mm as well as for fastening reduction clamping inserts for fittings 90 to 280 mm, Guide shaft for pipe support und back stop, with pipe support 315 mm
- L = left
- R = right

d [mm]	Type	Code	kg
315	L	**790 118 011**	15,700
315	R	**790 118 012**	15,700

Clamping insert, narrow, d 315

PF 3 25 117

- For clamping of elbows, flange adapters, etc., d = 315 mm, 1 piece = 1 Alu-half-shell
- Each code number defines 1 piece reduction clamping insert. Per outer base clamping unit 2 reduction clamping inserts are needed.

d [mm]	Code	kg
315	**790 118 028**	0,850

Set of pipe supports

PF 3 25 117

d-d [mm]	Code	kg
90 - 280	**790 118 025**	6,700

Reduction clamping inserts, narrow

- d 90 - 280 mm
- Each code number defines 1 piece of reduction clamping insert.

d [mm]	Code	kg
90	**790 112 098**	0,995
110	**790 112 099**	1,285
125	**790 112 100**	1,245
140	**790 112 101**	1,205
160	**790 112 102**	1,135
180	**790 112 103**	1,010
200	**790 112 104**	0,950
225	**790 112 105**	0,865
250	**790 112 106**	0,770
280	**790 112 107**	0,560

Back stop

PF 3 25 117

- Prevents the components from slipping out of the clamping device during fusion.

Code	kg
790 118 026	5,200

Machines for Processing Plastic-Pipes

PF 3 25 117

Flange adapter clamping unit

- For centric fusion of flange adapters
- Easy, correct attachment of clamping unit in the basic machine
- Including packaging

d-d [mm]	Code	kg	
90 - 315	**790 118 031**	25,000	

PF 3 25 117

T-fitting clamping unit

- For the rational manufacturing of 90° T-fittings in the sizes d 90 to 250 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts d 90 - 225 mm
- Including packaging

d-d [mm]	Code	kg	
90 - 250	**790 118 032**	140,000	

PF 3 25 117

Y-fitting clamping unit

- For the rational manufacturing of 30° to 45° Y-fittings in the sizes d 90 to 250 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Complete with reduction clamping inserts d 90 - 225 mm
- Including packaging

d-d [mm]	Code	kg	
90 - 250	**790 118 033**	174,000	

PF 3 25 117

Set planer of blades

- Blade has 2 cutting edges (1 set = 2 pieces)

Description	Code	kg	
long	**790 118 042**	0,085	
short	**790 118 043**	0,045	

Machines for Processing Plastic-Pipes

WM 500 Plus Workshop butt fusion machine

PF 3 25 137

Machine WM 500 Plus, complete

- For fusion jointing of PP, PE and PVDF pipes and fittings, for accurate single or series prefabrication of fittings (segment bends d 250 - 500 mm, Y- and T-fittings d 250 - 400 mm) for complete pressure range.
- The WM 500 can be equipped by the manufacturer with the SUVI® 50 data recording device for documentation of fusion parameters.
- Machine WM 500 complete as described below in basic model, planer, heater, main segment clamping units and reduction clamping inserts and including transport crate

d-d [mm]	Performance	Code	kg	
250 - 500	400 V/13500 W	**790 120 020**	2000,000	

Basic model

- Total weight of machine including reduction clamping inserts
- High precision design, distortion-free and sturdy machine bed
- Hardened, hard chrome plated linear guide rails for extreme loads
- Sturdy, closed machine base with separate electric and hydraulic unit
- Heater release mechanism
- Adjustable stops for accurate facing depth
- Axial alignment of the pipes on both sides by moving the base clamping tools transverse to axis direction
- Pressure selection switch to changeover between planing and fusion pressure valves for exact build-up of required planing and fusion pressures
- Hydraulic opening and closing of clamping brackets
- Universal support plates for main segment clamping units, flange adaptor clamping unit, T- and Y-fittings clamping units, which can be moved in the axial direction to compensate wall offset
- **Control panel**
- User-friendly, clearly arranged operating and control instruments
- Integrated, vibration-free pressure gauge with precise scaling
- Emergency stop
- Adjusting lever for moving carriage
- Permits ergonomically correct working
- **Additional standard equipment on the basic model**
- Timer to clock fusion times
- Machine specific tool set

d-d [mm]	Code	kg	
250 - 500	**790 120 019**	500,000	

PF 3 25 137

Planer

- Load transfer via enclosed, robust chain drive
- Optimised cutting geometry for even and chatter-free planing
- Powered planer to swivel in and out for single or double-sided facing of pipe ends
- Automatic placement in correct working position
- Low noise level of max. 70 dB (A)

d-d [mm]	Performance	Code	kg	
250 - 500	400 V/1140 W	**790 120 021**	105,500	

PF 3 25 117

Machines for Processing Plastic-Pipes

Heater

- Powerful, precision heating element with electronic, freely variable temperature control
- Swivels in and out hydraulically, movement in axial direction
- Dimensions 620 x 540 mm
- High temperature accuracy over the entire heating surface
- Exact LCD adjustment of heater temperature
- High-quality, non-stick PTFE-coating with long service life
- Automatic placement in correct working position

	d-d [mm]	Performance	Code	kg	
PF 3 25 117	250 - 500	10000 W	**790 120 022**	-	

Main segment clamping units for pipes

- Wide version for accurate clamping of 500 mm pipes and for fastening reduction clamping inserts for pipes d 250 to 450 mm
- Swivel to an angle of 22.5° for 45° segment bend fusion
- Universal support plates for main segment clamping units, flange adaptor clamping unit, T- and Y-fittings clamping units, which can be moved in the axial direction to compensate wall offset
- L = left
- R = right

	d [mm]	Type	Code	kg	
PF 3 25 117	500	L	**790 120 023**	182,000	
	500	R	**790 120 024**	182,000	

Reduction clamping inserts, left and right, for segment fusion

- For clamping pipes of 250 to 450 mm, interlocking

	d-d [mm]	Code	kg	
PF 3 25 117	250 - 450	**790 120 013**	0,001	

WM 500 Plus with SUVI® 50

- equipped with the SUVI® 50 data recording unit

	Code	kg	
PF 3 25 137	**790 120 075**	2000,000	

Machines for Processing Plastic-Pipes

WM 500 Plus Accessories

Reduction clamping inserts, narrow

- Each code number defines 1 piece of reduction clamping insert.

Code	kg	
790 116 018	4,100	
790 116 019	3,800	
790 116 020	3,500	
790 116 021	3,200	
790 116 022	2,500	
790 116 023	2,500	

Reduction clamping inserts, wide

- Each code number defines 1 piece of reduction clamping insert.

Code	kg	
790 116 010	3,300	
790 116 011	3,500	
790 116 012	3,600	
790 116 013	3,700	
790 116 014	3,400	
790 116 015	3,500	

PF 3 25 117

Back stop

- Prevents the components from slipping out of the clamping device during fusion.

Code	kg	
790 108 026	34,000	

PF 3 25 117

Base clamping unit 500 mm for fittings

- For clamping fittings of 500 mm as well as for the reduction clamping inserts for fittings of 250 to 450 mm, Guide shaft for pipe support and back stop, with pipe support 500 mm
- L = left
- R = right

d [mm]	Type	Code	kg	
500	L	**790 120 011**	109,000	
500	R	**790 120 012**	112,000	

PF 3 25 117

Set of pipe supports

d-d [mm]	Code	kg	
250 - 450	**790 120 025**	10,700	

Machines for Processing Plastic-Pipes

PF 3 25 117

Flange adapter clamping unit

- For centric fusion of flange adapters
- Easy, correct attachment of clamping unit in the basic machine
- Including packaging

d-d [mm]	Code	kg	
250 - 500	**790 120 031**	73,000	

PF 3 25 117

T-fitting clamping unit

- For the rational manufacturing of 90° T-fittings in the sizes d 250 to 400 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Complete with reduction clamping inserts d 250 - 355 mm
- Including packaging

d-d [mm]	Code	kg	
250 - 400	**790 120 032**	415,000	

PF 3 25 117

Y-fitting clamping unit

- For the rational manufacturing of 30° to 45° Y-fittings in the sizes d 250 to 400 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Complete with reduction clamping inserts d 250 - 355 mm
- Including packaging

d-d [mm]	Code	kg	
250 - 400	**790 120 033**	610,000	

PF 3 25 117

1 Set planer blades

- Blade has 2 cutting edges (1 set = 2 pieces)

Code	kg	
790 117 041	0,470	

Machines for Processing Plastic-Pipes

WM 630 Plus Workshop butt fusion machine

PF 3 25 138

Machine WM 630 Plus, complete

- For fusion jointing of PP, PE and PVDF pipes and fittings, for accurate single or series prefabrication of fittings (segment bends d 315 - 630 mm, Y- and T-fittings d 315- 500 mm) for complete pressure range,
- The WM 630 can be equipped by the manufacturer with the SUVI® 50 data recording device for documentation of fusion parameters.
- The Machine as described below in basic model, including transport crate, planer, heater, main segment units and reduction clamping inserts

d-d [mm]	Performance	Code	kg	
315 - 630	400 V/15600 W	**790 108 020**	1870,000	

Basic model

- Total weight of machine including reduction clamping inserts
- Dimensions: 2400 L x 1400 W x 2070 H in mm
- High precision design, distortion-free and sturdy machine bed
- Hardened, hard chrome plated linear guide rails for extreme loads
- Sturdy, closed machine base with separate electric and hydraulic unit
- Heater release mechanism
- Adjustable stops for accurate facing depth
- Axial alignment of the pipes on both sides by moving the base clamping tools transverse to axis direction
- Pressure selection switch to changeover between planing and fusion pressure valves for exact build-up of required planing and fusion pressures
- Hydraulic opening and closing of clamping brackets
- Universal support plates for main segment clamping units, flange adaptor clamping unit, T- and Y-fittings clamping units, which can be moved in the axial direction to compensate wall offset
- **Control panel**
- User-friendly, clearly arranged operating and control instruments
- Integrated, vibration-free pressure gauge with precise scaling
- Emergency stop
- Adjusting lever for moving carriage
- Permits ergonomically correct working
- **Additional standard equipment on the basic model**
- Timer to clock fusion times
- Machine specific tool set

Code	kg	
790 108 019	1000,000	

PF 3 25 138

Planer

- Load transfer via enclosed, robust chain drive
- Optimised cutting geometry for even and chatter-free planing
- Powered planer to swivel in and out for single or double-sided facing of pipe ends
- Hydraulic movement in axial direction
- Automatic placement in correct working position
- Low noise level of max. 70 dB (A)

d-d [mm]	Code	kg	
315 - 630	**790 108 021**	100,000	

PF 3 25 117

Machines for Processing Plastic-Pipes

Heater

- Powerful, precision heating element with electronic, freely variable temperature control
- Swivels in and out hydraulically, movement in axial direction
- Dimensions 800 x 750 mm
- High temperature accuracy over the entire heating surface
- Exact LCD adjustment of heater temperature
- High-quality, non-stick PTFE-coating with long service life
- Automatic placement in correct working position

	d-d [mm]	Performance	Code	kg	
PF 3 25 117	315 - 630	12000 W	**790 108 022**	80,000	

Main segment clamping unit for pipes

- Wide version for accurate clamping of 630 mm pipes and for fastening reduction clamping inserts for pipes d 315 to 560 mm
- Swivel to an angle of 22.5° for 45° segment bend fusion
- L = left
- R = right

	d [mm]	Type	Code	kg	
PF 3 25 117	630	L	**790 108 023**	185,000	
	630	R	**790 108 024**	185,000	

Reduction clamping inserts, left and right, for segment fusion

- For clamping pipes of 315 to 560 mm, Interlock inserts

	d-d [mm]	Code	kg	
PF 3 25 117	315 - 560	**790 108 013**	250,000	

WM 630 Plus with SUVI® 50

- equipped with the SUVI® 50 data recording unit

	Code	kg	
PF 3 25 138	**790 108 075**	2300,000	

Machines for Processing Plastic-Pipes

WM 630 Plus Accessories

Reduction clamping inserts, narrow

- Each code number defines 1 piece of reduction clamping insert.

Code	kg	
790 116 020	3,500	
790 116 021	3,200	
790 116 022	2,500	
790 116 023	2,500	

Reduction clamping inserts, wide

- Each code number defines 1 piece of reduction clamping insert.

Code	kg	
790 116 012	3,600	
790 116 013	3,700	
790 116 014	3,400	
790 116 015	3,500	

PF 3 25 117

Set of pipe supports

d-d [mm]	Code	kg	
315 - 450	**790 108 025**	6,000	

Back stop

- Prevents the components from slipping out of the clamping device during fusion.

Code	kg	
790 108 026	34,000	

PF 3 25 117

Base clamping unit 500 mm for fittings

- For clamping fittings of 500 mm as well as for the reduction clamping inserts for fittings of 315 to 450 mm, Guide shaft for pipe support and back stop, with pipe support 500 mm
- L = left
- R = right

d [mm]	Type	Code	kg	
500	L	**790 108 011**	141,000	
500	R	**790 108 012**	141,000	

Machines for Processing Plastic-Pipes

PF 3 25 117

Flange adaptor clamping unit

- For centric fusion of flange adapters
- Easy, correct attachment of clamping unit in the basic machine
- Including packaging

d-d [mm]	Code	kg	
315 - 630	**790 108 031**	235,000	

PF 3 25 117

T-fitting clamping unit

- For the rational manufacturing of 90° T-fittings in the sizes d 315 to 500 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts
- Including packaging

d-d [mm]	Code	kg	
315 - 500	**790 108 032**	613,000	

PF 3 25 117

Y-fitting clamping unit

- For the rational manufacturing of 30° to 45° Y-fittings (branches) in the sizes d 315 - 500 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts
- Including packaging

d-d [mm]	Code	kg	
315 - 500	**790 108 033**	770,000	

PF 3 25 117

1 Set planer blades

- (1 set = 4 blades)

Code	kg	
790 108 043	0,500	

Machines for Processing Plastic-Pipes

WM 1200 Workshop butt fusion machine

Machine WM 1200, complete with SUVI®50

Neu

- For fusion jointing of PP and PE pipes and fittings, for accurate single or series prefabrication of fittings (segment bends d 630-1200 mm, Y- and T-fittings d 630-900 mm) for complete pressure range
- The Machine as described below in basic model, including transport crate, planer, heater, main segment units and reduction clamping inserts

	d-d [mm]	Performance	Code	kg	
PF 3 25 871	630 - 1200	400 V/4100 W	**790 126 001**	999,000	

Basic model

- Total weight of machine including reduction clamping inserts
- Dimensions: 2400 L x 1400 W x 2070 H in mm
- High precision design, distortion-free and sturdy machine bed
- Hardened, hard chrome plated linear guide rails for extreme loads
- Sturdy, closed machine base with separate electric and hydraulic unit
- Heater release mechanism
- Axial alignment of the pipes on both sides by moving the base clamping tools transverse to axis direction
- Pressure selection switch to changeover between planing and fusion pressure valves for exact build-up of required planing and fusion pressures
- Integrated, vibration-free pressure gauge with precise scaling
- Emergency stop
- Machine specific tool set
- equipped with the SUVI® 50 data recording unit
- Hydraulic opening and closing of clamping brackets
- User-friendly, clearly arranged operating and control instruments

	Code	kg	
PF 3 25 138	**790 126 002**	1000,000	

Planer

- Load transfer via enclosed, robust chain drive
- Optimised cutting geometry for even and chatter-free planing
- Powered planer to swivel in and out for single or double-sided facing of pipe ends
- Hydraulic movement in axial direction
- Automatic placement in correct working position
- Low noise level of max. 70 dB (A)

d-d [mm]	Code	kg	
630 - 1200	**790 126 003**	200,000	

Machines for Processing Plastic-Pipes

Heater

- Powerful, precision heating element with electronic, freely variable temperature control
- Swivels in and out hydraulically, movement in axial direction
- High temperature accuracy over the entire heating surface
- Exact LCD adjustment of heater temperature
- High-quality, non-stick PTFE-coating with long service life
- Automatic placement in correct working position

d-d [mm]	Code	kg	
630 - 1200	**790 126 004**	150,000	

Main segment clamping unit for pipes

- Wide version for accurate clamping of 1200 mm pipes and for fastening reduction clamping inserts for pipes d 630 to 1200 mm
- Swivel to an angle of 22.5° for 45° segment bend fusion
- L = left
- R = right

d [mm]	Type	Code	kg	
1200	L	**790 126 005**	450,000	
1200	R	**790 126 006**	450,000	

Reduction clamping inserts, left and right, for segment fusion

- For clamping pipes of 630 to 1000 mm, Interlock inserts

d-d [mm]	Code	kg	
630 - 1000	**790 126 007**	-	

Machines for Processing Plastic-Pipes

WM 1200 Accessories

Base clamping unit 500 mm for fittings

PF 3 25 117

- For clamping fittings of 500 mm as well as for the reduction clamping inserts for fittings of 315 to 450 mm, Guide shaft for pipe support and back stop, with pipe support 500 mm
- L = left
- R = right

d [mm]	Type	Code	

Set of pipe supports

PF 3 25 117

d-d [mm]	Code	

Back stop

- Prevents the components from slipping out of the clamping device during fusion.

Code	kg	
790 108 026	34,000	

Flange adaptor clamping unit

PF 3 25 117

- For centric fusion of flange adapters
- Easy, correct attachment of clamping unit in the basic machine
- Including packaging

d-d [mm]	Code	

T-fitting clamping unit

PF 3 25 117

- For the rational manufacturing of 90° T-fittings in the sizes d 630 - 900 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts
- Including packaging

d-d [mm]	Code	kg	
630 - 900	**790 126 011**	3050,000	

Machines for Processing Plastic-Pipes

Y-fitting clamping unit

- For the rational manufacturing of 30° to 45° Y-fittings (branches) in the sizes d 630 - 900 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts
- Including packaging

	d-d [mm]	Code	kg	
PF 3 25 117	630 - 900	**790 126 012**	3050,000	

X-fitting clamping unit

- To weld a X-piece the T-piece unit is necessary

	d-d [mm]	Code	kg	
PF 3 25 117	630 - 900	**790 126 013**	3050,000	

Base Plate T-Y-X pieces

- To mount the T-Y-X pieces to the support plate

	Code	kg	
PF 3 25 117	**790 126 014**	1100,000	

1 Set planer blades

- (1 set = 4 blades)

Code	
790 126 043	

Machines for Processing Plastic-Pipes

PPC Plastic pipe cutter and KS 355

PPC Plastic pipe cutter

PF 3 25 117

- For cutting plastic pipes d10 - d160

d-d [mm]	Article	Code	kg
10 - 63	PPC 63, s max. = 7,2mm	**790 109 001**	0,710
50 - 110	PPC 110, s max. = 12.7mm	**790 109 002**	1,400
110 - 160	PPC 160, s max. = 19,0mm	**790 109 003**	1,880

Replacement cutting wheels

PF 3 25 117

- **for plastic pipe cutter**

d-d [mm]	Article	Code	kg
10 - 63	SR 63 max. s=7,2 mm	**790 109 011**	0,004
50 - 110	SR 110/160 max. s=12,7 mm	**790 109 012**	0,015
110 - 160	SR 160 max. s=19,0 mm	**790 109 013**	0,023

Plastic pipe cutter

PF 3 25 129

- The KS 355 is the ideal tool for simple right angle precision cutting of PVC, PE and PP pipes, Size range d 160 to 355 mm with a minimum wall thickness up to 40 mm. Including transport box.
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts neccessary

d-d [mm]	Code	kg
160 - 355	**790 202 001**	35,000

Saw blade Ø 180x30

PF 3 25 119

Code	kg
790 202 011	0,485

Machines for Processing Plastic-Pipes

KS 1600

Plastic pipe cutter

The KS 1600 is prepared to cut plastic-pipes from diameter 355 mm up to 1600 mm with a wall thickness of max. 60 mm, fast, clean and properly right-angled. For each pipe-diameter the appropriate chain length is necessary. The saw is to put on the tensioned chain as per user manual and serves as a guiding device for the saw over a full 360° turn.

The guard plate covers the saw blade also during operation and provides full protection for the user all the time.

The KS 1600 Basis-Kit consists of a hand-circular saw, 230 V / 2200 W with carriage, 2 tension chains for d 560 mm and d 630 mm as well as a chain tensioner. The whole equipment is to be placed easily into the convenient and robust transport box.

The easy handling and the optimal safety factor do make this tool indispensable on each building site.

Scope of delivery:
1 Hand-circular saw, 1 tensioning chain d 560 mm, 1 tensioning chain d 630, 1 chain tensioner, 1 hex-wrench size 5, 1 hex-wrench size 6, 1 operating instruction, transport-box

Technical data:

Dimension range:	355 –1600 mm (By usage of the respective tensioning chain)
Plug:	EU-Plug
Voltage:	230 V AC
Power:	2200 Watt
Frequency:	50-60 Hz
Circular saw blade outer-Ø:	240 mm
RPM:	4100
Sound level:	104 dB (A)
Weight saw:	15, 5 kg
Weight KS 1600 Basic-Kit:	43,5 kg
Dimensions saw (WxHxD):	790 x 330 x 335 mm
Dimensions Transport-Box:	950 x 400 x 395 mm

	d-d [mm]	Type	Code	kg	
PF 2 51 305	355 - 1600	KS 1600 Basic Kit	**790 109 600**	43,000	

Saw blade

	Description	Code	kg	
PF 3 25 119	Saw Blade 240X3,0X30, 18 teeth punched	**790 109 618**	0,653	

Chain tensioner

- Chain tensioner is included in the scope of delivery of the KS 1600 Basic-Kit (790 109 600).

	d-d [mm]	Code	kg	
PF 3 25 119	355 - 1600	**790 109 616**	0,430	

Tensioning Chains

- Chain d 560 and d 630 mm are included in the scope of delivery of the KS 1600 Basic-Kit (790 109 600).

	d [mm]	Code	kg	
	355	**790 109 602**	3,700	
	400	**790 109 603**	4,100	
	450	**790 109 604**	4,700	
	500	**790 109 605**	5,200	
	560	**790 109 606**	5,600	
	630	**790 109 607**	6,630	
	710	**790 109 608**	7,900	
	800	**790 109 609**	8,600	
	900	**790 109 610**	10,100	
	1000	**790 109 611**	11,000	
	1100	**790 109 612**	12,000	
	1200	**790 109 613**	13,500	
	1400	**790 109 614**	15,500	
PF 3 25 129	1600	**790 109 615**	17,800	

Machines for Processing Plastic-Pipes

BS Belt Saws

BS 450 Belt saw size range d 90 - 450 mm

PF 3 25 129

- For exact cutting of PE, PP, PVC and PVDF plastic pipes, size range d 90 - 450 mm
- Pipe cutter with sturdy tubular steel stand and integrated V-bed
- Variable clamping system for fastening the pipe in the V-bed
- Angles from 0° to 45° to one side can be freely adjusted
- Easy to disassemble into subcomponents and transport to job sites
- Spring-resilient lowering of saw bow
- Easy saw blade replacement system with centering mechanism
- Application: up to d 160 PN 10, up to d 250 PN 6, up to d 450 PN 3,2

d-d [mm]	Code	kg	
90 - 450	**790 109 045**	160,000	

BS 315/BS 630 Belt saw

PF 3 25 129

- Angles from 0° to 45° to one side can be freely adjusted
- For exact cutting of PE, PP, PVC and PVDF pipes, size range d 100 - 315 mm and 200 - 630 mm
- Pipe cutter with sturdy tubular steel stand
- Variable clamping system for fastening the pipe in the V-bed
- Spring-resilient lowering of saw bow
- Easy saw blade replacement system with centering mechanism

d-d [mm]	Code	kg	
100 - 315	**790 109 043**	240,000	
200 - 630	**790 109 047**	340,000	

BS 1200 and bigger

PF 3 25 119

- Angles from 0° to 67,5° to one side can be freely adjusted
- Pipe cutter with sturdy tubular steel stand

Description	Code	
on request	-	

BS Wearing Parts

- **Saw belt for**

Article	Code	kg	
BS 315	**790 109 044**	0,300	
BS 450	**790 109 046**	0,400	
BS 630	**790 109 048**	0,500	

PF 3 25 119

On request!

Code	

Machines for Processing Plastic-Pipes

Tools for pipeline construction

PF 3 25 117

Outer bead remover

- Usable for clean and fast removal of the outer bead in butt fusion application
- With clamped pipes in the machine
- Including transportation case

d-d [mm]	Code	kg
110 - 160	**790 109 241**	1,850
140 - 250	**790 109 242**	1,950
180 - 315	**790 109 243**	2,300
280 - 450	**790 109 244**	2,700

Replacement blades

PF 3 25 117

d-d [mm]	Code	kg
110 - 160	**790 109 233**	0,020
140 - 450	**790 109 234**	0,020

Machines for Processing Plastic-Pipes

Accessories for job sites

Roller support 315

- Up to d 315 mm, with base plate, galvanised
- The piping can be pulled with little effort
- Protects pipes from damage
- Reduces resistance during fusion
- Maximum load 300 kg

d-d [mm]	Code	kg	
20 - 315	**790 109 110**	4,000	

PF 3 25 117

Support 750

- Up to d 750 mm, with base plate, galvanised
- **height adjustable** (60 mm)
- The piping can be pulled with little effort
- Protects pipes from damage
- Reduces resistance during fusion
- Maximum load 1000 kg

d-d [mm]	Code	kg	
110 - 750	**790 109 109**	4,115	

PF 3 25 117

Alignment Tool

- To align and position pipes in the dimension range d 110 - 400 mm. The pipes are clamped in the vice, the axial movement takes placed by a chain drive. The chain is totated by the ratched (square 19 mm).

Article	Code	kg	
Alignment Tool	**790 109 108**	15,000	
Ratch	**790 109 107**	1,220	

PF 3 25 117

Machines for Processing Plastic-Pipes

Miscellaneous accessories org

Vice for plastic pipes

PF 3 25 119

d-d [mm]	Code	kg	
20 - 250	**790 052 231**	5,500	

Pipe support for vice

PF 3 25 119

d-d [mm]	Code	kg	
20 - 250	**790 052 228**	0,650	

Pipe vice

PF 3 24 351

- For pipe dimensions 20 - 300 mm.
- Drehbar."

d-d [mm]	Code	kg	
20 - 300	**790 008 008**	16,400	

Timer with 1 stop time

PF 3 25 117

Code	kg	
790 101 235	0,040	

Timer with 2 stop times

PF 3 25 117

Code	kg	
790 114 028	0,100	

KS Tangit Cleaner

F

PF 2 28 473

- Special cleaning agent for plastic fusion connections with PP, PE, PVDF and PB.

Code	kg	
799 298 023	0,890	

Machines for Processing Plastic-Pipes

PF 3 25 117

Digital-temperature measuring device

- With surface sensor and case
- Measuring range - 50 °C to + 1150 °C
- LCD-Display
- Power supply: 9 V-battery
- Surface sensor NiCr-Ni
- Case with foam lining

Code	kg	
790 109 080	0,445	

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General Condition of Supply of Georg Fischer Piping Systems (Switzerland) Limited, Schaffhausen

1 General

1.1 These General Conditions shall apply to all Products supplied by Georg Fischer to the Purchaser. They shall also apply to all future business even when no express reference is made to them

1.2 Any deviating or supplementary conditions especially Purchaser's general conditions of purchase and verbal agreements shall only be applicable if accepted in writing by Georg Fischer.

1.3 The written form shall be deemed to be fulfilled by all forms of transmission, evidenced in the form of text, such as telefax, e-mail, etc.

2 Tenders

Tenders shall only be binding if they contain a specifically stated period for acceptance.

3 Scope of Delivery

3.1 Georg Fischer's product range is subject to change.

3.2 The confirmation of order shall govern the scope and execution of the contract.

4 Data and Documents

4.1 Technical documents such as drawings, descriptions, illustrations and data on dimensions, performance and weight as well as the reference to standards are for information purposes only. They are not warranted characteristics and are subject to change.

4.2 All technical documents shall remain the exclusive property of Georg Fischer and may only be used for the agreed purposes or as Georg Fischer may consent.

5 Confidentiality, Protection of Personal Data

5.1 Each party shall keep in strict confidence all commercial or technical information relating to the business of the other party, of which it has gained knowledge in the course of its dealing with the other party. Such information shall neither be disclosed to third parties nor used for other purposes than those for which the information has been supplied.

5.2 In the context of the contractual relation with the Purchaser personal data may be processed. The Purchaser agrees to the disclosure of said data to third parties such as foreign subcontractors and suppliers etc.

6 Local Laws and Regulations, Export Controls

6.1 The Purchaser shall bring to the attention of Georg Fischer all local laws and regulations at the place of destination which bear connection with the execution of the contract and the adherence to relevant safety regulations and approval procedures.

6.2 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations.

7 Price

7.1 Unless agreed otherwise, the prices shall be deemed quoted net ex works (according to Incoterms of the ICC, latest version) including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and importlicences etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees duties etc. connected with the contract.

7.2 If the costs of packing, carriage, insurance, fees and other supplementary costs are included in the tender price or contract price or are referred to specifically in the tender or confirmation of order, Georg Fischer reserve the right to revise their prices accordingly should any change occur in the relevant tariffs.

8 Terms of Payment

8.1 The Purchaser shall make payment in the manner agreed by the parties without any deductions such as discounts, costs, taxes or dues.

8.2 The Purchaser may only withhold or off-set payments due against counter claims which are either expressly acknowledged by Georg Fischer or finally awarded to the Purchaser.
In particular, payment shall still be made when unessential items are still out-standing provided that the Products already delivered are not rendered unusable as a result.

9 Retention of Title

9.1 The Products shall remain the property of Georg Fischer until the Purchaser shall have settled all claims, present and future, which Georg Fischer may have against him.

9.2 Should the Purchaser resell Products to which title is reserved, in the ordinary course of business, he shall hereby be deemed to have tacitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. Until revoked by Georg Fischer, this assignment shall not preclude Purchaser's right to collect the assigned receivables.

9.3 To the extent the value of the Products to which title is reserved together with collateral securities exceeds Georg Fischer's claims against the Purchaser by more than 20%, Georg Fischer shall re-assign the above proceeds to Purchaser at his request.

10 Delivery

10.1 The term of delivery shall commence as soon as the contract has been entered into, all official formalities such as import and payment permits have been obtained and all essential technical issues have been settled. The term of delivery shall be deemed duly observed when, upon its expiry, the Products are ready for despatch.

10.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:

a) if Georg Fischer are not supplied in time with the information necessary for the execution of the contract or if subsequent changes causing delays are made by the Purchaser.

b) if Georg Fischer are prevented from performing the contract by force majeure. Force majeure shall equally be deemed to be any unforeseeable event beyond Georg Fischer's control which renders Georg Fischer's performance commercially unpractical or impossible, such as delayed or defective supplies from sub contractors labour disputes, governmental orders or regulations, shortages in materials or energy, serious disturbances in Georg Fischer's works, such as the total or partial destruction of plant and equipment or the breakdown of essential facilities, serious disruptions in transport facilities, e.g. impassable roads.
Should the effect of force majeure exceed a period of six months, either party may cancel the contract forthwith.
Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting therefrom, any suspension or cancellation being without prejudice to Georg Fischer's right to recover all sums due in respect of consignments delivered and costs incurred to date.

c) if the Purchaser is in delay with the fulfilment of his obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment or if he has failed to timely provide the agreed securities.

10.3 If for reasons attributable to Georg Fischer the agreed term of delivery or a reasonable extension thereof is exceeded, Georg Fischer shall not be deemed in default until the Purchaser has granted to Georg Fischer in writing a reasonable extension thereof of not less than one month which equally is not met.
The Purchaser shall then be entitled to the remedies provided at law, it being however understood that, subject to limitations of Art. 16, damage claims shall be limited to max. 10% of the price of the delayed delivery.

10.4 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries.

10.5 If the Purchaser fails to take delivery within a reasonable time of Products notified as ready for despatch, Georg Fischer shall be entitled to store the Products at the Purchaser's expense and risk and to invoice them as delivered. If Purchaser fails to effect payment, Georg Fischer shall be entitled to dispose of the Products.

10.6 Should Purchaser cancel an order without justification and should Georg Fischer not insist on the performance of the contract, Georg Fischer shall be entitled to liquidated damages in the amount of 10% of the contract price, Georg Fischer›s right to prove and claim higher damages remaining reserved. Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage.

11 Packing

If the Products are provided with additional packing over and above the standard packing, such packing shall be charged additionally.

12 Passing of Risk

12.1 The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works (EX WORKS, Incoterms ICC, latest version), even if delivery is made carriage-paid, under similar clauses or including installation or when carriage is organized and managed by Georg Fischer.

12.2 If delivery is delayed for reasons beyond Georg Fischer's control, the risk shall pass to the Purchaser when he is notified that the Products are ready for despatch.

13 Carriage and Insurance

13.1 Unless agreed otherwise, the Purchaser shall bear the cost of carriage.

13.2 The Purchaser shall be responsible for transport insurance against damage of whatever kind. Even when such insurance is arranged by Georg Fischer it shall be deemed taken out by the order of and for the account of the Purchaser and at his risk.

13.3 Special requests regarding carriage and insurance shall be communicated to Georg Fischer in due time. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without responsibility, by the quickest and cheapest method possible.
In case of carriage-paid delivery transport arrangements shall be made by Georg Fischer. If the Purchaser specifies particular requirements, any extra costs involved shall be borne by him.

13.4 In the event of damage or loss of the Products during carriage the Purchaser shall mark the delivery documents accordingly and immediately have the damage ascertained by the carrier. Not readily ascertainable damages sustained during carriage shall be notified to the carrier within six days after receipt of the Products.

14 Inspection, Notification of Defects and Damages

14.1 The Products will be subject to normal inspection by Georg Fischer during manufacture. Additional tests required by the Purchaser shall be agreed upon in writing and shall be charged to the Purchaser.

14.2 It shall be a condition of Georg Fischer's obligation under the warranties stated hereinafter that Georg Fischer be notified in writing by the Purchaser of any purported defect immediately upon discovery. Notice concerning weight, numbers or apparent defects is to be given latest within 30 days from receipt of the Products, notice of other defects immediately latest within 7 working days after discovery, in any event within the agreed warranty period.

14.3 Purchaser shall not dispose of allegedly defective Products until all warranty and/or damage claims are finally settled. At its request, defective Products are to be placed at Georg Fischer's disposal.

14.4 At its request, Georg Fischer shall be given the opportunity to inspect the defect and/or damage, prior to commencement of remedial work, either itself or by third party experts.

15 Warranty

15.1 At the written request of the Purchaser, Georg Fischer undertake to repair or replace at their discretion, as quickly as possible and free of charge all Products supplied which demonstrably suffer from faulty design, materials or workman-ship or from faulty operating or installation instructions.
In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organisation, said parts must be accompanied by a Material Safety Disclosure Form. The form may be obtained from Georg Fischer's local sales company or via www.piping.georgfischer.com.
Replaced parts shall become property of Georg Fischer.

15.2 For Products which are manufactured to specifications, drawings or patterns supplied by the Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship.

15.3 The Purchaser shall be entitled to cancel the contract or to demand a reduction in the contract price if also a second attempt to repair or replace the Products has failed.

15.4 For Products or essential components manufactured by a third party and supplied by Georg Fischer under this contract, Georg Fischer's warranty is limited to the warranty provided by said third party.

15.5 This warranty shall not apply to damage resulting from normal wear and tear, improper storage and maintenance, failure to observe the operating instructions, overstressing or overloading, unsuitable operating media, unsuitable construction work or unsuitable building ground, improper repairs or alterations by the Purchaser or third parties, the use of other than original spare parts and other reasons beyond Georg Fischer's control.

15.6 No action or claim may be brought by the Purchaser on account of any alleged breach of warranty or any other obligation of Georg Fischer after the expiration of twelve (12) months from receipt of the Products by the end user or at the latest within eighteen (18) months of the Products being despatched by Georg Fischer.

15.7 In case of Products for use in domestic installations or in utilities
- Georg Fischer will assume the costs of dismantling the defective Product and restoring the damaged object as well as, in case of negligence, all other direct damages caused by the defective Product (damage to property and injury to or death of persons) up to CHF 1 000 000 per occurrence.
- the statute of limitations for warranty or damage claims – contrary to Section 15.6 – will be 5 years from the date of installation.

16 Limitation of Liability

All cases of breach of contract and the relevant consequences as well as all rights and claims on the part of the customer, irrespective on what ground they are based, are exhaustively covered by these general conditions of supply. In particular, any claims not expressly mentioned for damages, reduction of price, termination of or withdrawal from the contract are excluded. In no case whatsoever shall the customer be entitled to claim damages other than compensation for costs of remedying defects in the supplies. This in particular refers, but shall not be limited, to loss of production, loss of use, loss of orders, loss of profit and other direct or indirect or consequential damage. This exclusion of liability, however, does not apply to unlawful intent or gross negligence on the part of Georg Fischer and in case of strict liability under applicable product liability statutes, but does apply to unlawful intent or gross negligence of persons employed or appointed by Georg Fischer to perform any of its obligations.

17 Severability

Should any term or clause of these General Conditions in whole or in part be found to be unenforceable or void, all other provisions shall remain in full force and effect and the unenforceable or void provision shall be replaced by a valid provision, which comes closest to the original intention of the unenforceable or invalid provision.

18 Place of Performance and Jurisdiction

18.1 Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.

18.2 Any civil action based upon any alleged breach of this contract shall be filed and prosecuted exclusively in the courts of Schaffhausen, Switzerland.
Georg Fischer however reserves the right to file actions in any court having jurisdiction over controversies arising out of or in connection with the present contract.

18.3 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.

7/2005

GF Piping Systems → Worldwide

Our sales companies and representatives
ensure local customer support in over 100 countries.

www.piping.georgfischer.com

The technical data are not binding and not expressly warranted characteristics of the goods. They are subject to change. Our General Conditions of Sale apply.

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GMST 9130/4 (7.06)

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CH-8201 Schaffhausen/Switzerland, 2005
Printed in Germany

+GF+

GEORG FISCHER
PIPING SYSTEMS

Utility Systems

Product Range
2006
Export

+GF+

GEORG FISCHER
PIPING SYSTEMS

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General Information

Stock Index

To help with ordering we give you information about stock index (SID)*

SID 7:	normally available from stock
SID 2:	assembled to order, normally available within 8 days ex works
SID 8:	produced/obtained on order normally available within 8–4 weeks ex works

This information refers to normal commercial quantities*For higher demand please contact your Georg Fischer partner*

Packaging

GP	Pieces per Great Packaging
pcs*pal*	pieces per pallet
kg pal*	weight per pallet
vol*pal*	volume per pallet (including pallet)

Measures* units and short cuts

d, d7, d2	diameter
DN	nominal diameter
L, L7, L2	length
H, H7, H2	height
e, e7, e2	wall thickness
kg	weight
S=	size of bolts
AL	number of bolt holes
S	pipe series
SDR	Standard Dimension Ratio

Working pressure

The pressure rating of Georg Fischer PE-Fittings refers to the calculated values of prEN 722; 7 and prEN 7555 considering the total security value*
National Regulations and standards have to be observed*

Specification

Georg Fischer Fittings meet the ISO-standards, =EN-standards (respectively draft standards) as well as other national standards*

Approval

The Georg Fischer products are subjected to extensive internal and external tests and are approved by all major institutes and approval authorities
(for example: DVGW, SVGW, KIWA, IIP, Gaz de France, Gas Natural, etc*1*

General Conditions of Supply

Please find the General =onditions of Supply on the last page*

Works certificates

Works certificates corresponding EN 7; 2; 4 2*2 will be delivered on request*
Works certificates corresponding EN 7; 2; 4 8*7 B will be delivered on request, we will charge =HF 2; *– administrative costs*

Quality management Environmental management

Quality management system is well established at Georg Fischer and is continuously improved to satisfy our customers*
Georg Fischer Piping Systems are certified according to ISO 9; ; 7 as well as ISO 74; ; 7 (Environmental management)*

Technical documentation

For further technical information we offer you the Georg Fischer "Technical handbook distribution" and the detailed assembly instructions*

Service* training and consultation

Our comprehensive training program offers you the possibility for extensive advice and training*Please reserve for a our training program for piping systems*

Your partner

Georg Fischer is a world-wide organisation*Please find the address of your Georg Fischer partner on the cover back*

Modular system ELGEF® Plus

Less stock, higher flexibility, more variations – a contradiction? Not with the ELGEF Plus modular system. It is that easy:

Modular System Saddles

Saddle
Cat. 53 131 000

Tapping-T

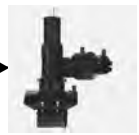
Tapping saddle, kit
Cat. 53 131 400

Reducer
Cat. 53 90 16
or coupler
Cat. 53 91 16

Tapping saddle, kit
Cat. 53 132 400

Tapping valve tee

Tapping valve
saddle kit
Cat. 53 153 200


Tapping valve
saddle, kit
Cat. 53 153 000

Stop-off adaptor

Stop-off saddle, kit
Cat. 53 149 000

Spigot with cutter

Spigot saddle,
with cutter, kit
Cat. 53 131 200

Spigot cap

Repair saddle, kit
Cat. 53 130 000

Transition

Adaptor saddle, kit

Transition

Adaptor saddle, kit

The only programme with a modular system

Modular Transition Fitting System

Transition with male
or female thread

Coupler
Cat. 53 91 16

Transition coupler with male
or female thread, kit
Cat. 20 92 07/20 92 02

Reducer
Cat. 53 90 16

Transition reducer
with male thread, kit
Cat. 20 92 07

Elbow 90°
Cat. 53 10 16

Transition elbow 90° with male
or female thread, kit
Cat. 20 10 07/20 10 02

Elbow 45°
Cat. 53 15 16

Transition elbow 45° with male
or female thread, kit
Cat. 20 15 07/20 15 02

The Swiss Association for Quality and Management Systems

SQS herewith certifies that the company named below has a management system which meets the requirements of the normative bases specified below.

Georg Fischer Piping Systems Ltd.

CH-8201 Schaffhausen

Certified area

Georg Fischer Piping Systems Ltd., Schaffhausen
Georg Fischer Rohrleitungssysteme (Schweiz) AG, Sales Company
Georg Fischer Wavin Ltd., Schaffhausen and Subingen
Georg Fischer Building Technology Ltd., Schaffhausen

Field of activity

The Piping Systems Group develops, manufactures and distributes plastic or metal components and systems for conducting, pumping, controlling, measuring and regulating liquids and gases and to this end provides comprehensive engineering and related services

Based on the audit result, SQS issues the

SQS Certificate
ISO 9001:2000 / ISO 14001:2004

CH-3052 Zollikofen, May 28, 2006
This SQS Certificate is valid up to and including May 27, 2009
Scope number 14
Registration number 10684

President SQS

X. Edelmann

Managing Director SQS

T. Zahner

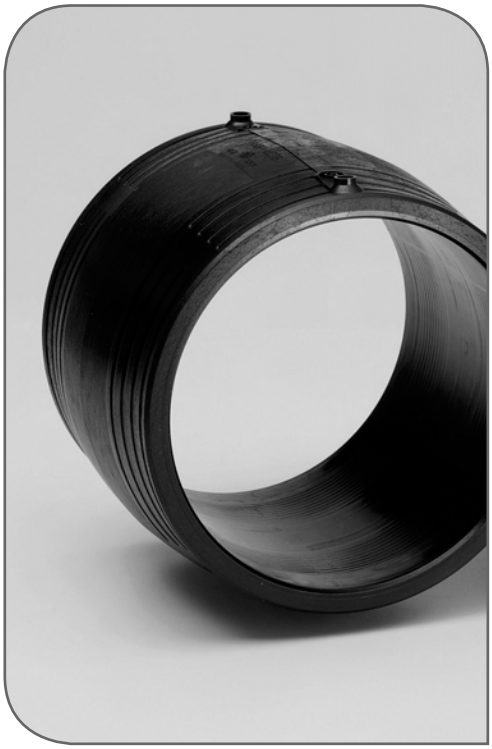
SCES 002, 023

Partner of IQNet

ELGEF Plus APPROVALS

Certification body	Certificate number	Material	Product range	Country
DGS	04 MAT.PA 002	PE 100	Electrofusion couplers	France
DGS	04 MAT.PA 010	PE 100	Fittings, Spigot	France
DIBt	Z-40.23-282	PE 100, PE 80	Electrofusion couplers, Fittings, Butt Fusion - Transition, Fittings, Butt fusion, mm, Fittings, Socket fusion - Transition, Fittings, Socket fusion, mm, Union, Butt Fusion, Union, Socket Fusion	Germany
DIBt	Z-40.23-282	PE 100, PE 80	Electrofusion couplers, Fittings, Butt Fusion - Transition, Fittings, Butt fusion, mm, Fittings, Socket fusion - Transition, Fittings, Socket fusion, mm, Union, Butt Fusion, Union, Socket Fusion	Germany
DS	1594-A	PE 100	Electrofusion couplers, Electrofusion fittings, Electrofusion fittings, Electrofusion saddles	Denmark
DVGW	DV-6611AS2072 (GF)	PE 100	Electrofusion tapping valves	Germany
DVGW	DV-8601AQ3257 (8601)	PE 100, PE 100/Brass, PE 100/Steel, PE 80	Electrofusion couplers, Electrofusion fittings, Electrofusion saddles, Fittings, Spigot, Fittings, Transition	Germany
DVGW	DV-8606AQ3258 (8606)	PE 100, PE 100/Brass, PE 100/Steel, PE 80	Electrofusion branch fitting, Electrofusion couplers, Electrofusion fittings, Electrofusion saddles, Fittings, Spigot, Fittings, Transition	Germany
DVGW	DV-8611AQ3259 (8611)	PE 100, PE 80	Electrofusion branch fitting, Electrofusion couplers, Electrofusion fittings, Electrofusion saddles, Fittings, Spigot	Germany
ELECTRABEL	04/006	PE 100	Fittings	Belgium
ETI	2-8-7/58	PE 100, PE 100/Brass, PE 80	Electrofusion couplers, Electrofusion fittings, Electrofusion saddles, Fittings, Spigot, Fittings, Transition , Valves	Estonia
GdF	2002-082/AD	PE 100	Electrofusion fittings	France
GdF	2002-083/AD	PE 100	Fittings, Spigot	France
GdF	2003-033/PH	PE 100	Electrofusion couplers	France
GdF	2003-034/PH	PE 100	Electrofusion saddles	France
GdF	2004-081/AD	PE 100	Electrofusion saddles	France
GdF	95/020-AD	PE 100	Electrofusion couplers	France
GdF	95/052-AD	PE 100	Electrofusion couplers	France
GdF	BTR	PE 100	Valves, plug	France
GdF	PRISES SDG	PE 100	Electrofusion saddles	France
IGA	72.201	PE 100	Electrofusion branch fitting, Electrofusion couplers, Electrofusion fittings, Electrofusion saddles, Fittings, Spigot	Argentina

Certification body	Certificate number	Material	Product range	Country
ITC	02 0426 V/AO	PE 100	Electrofusion couplers, Electrofusion fittings, Electrofusion saddles, Fittings, Spigot	Czech Republic
MHEW	Water 2004	Machine, PE 100, PE 80	Electrofusion branch fitting, Electrofusion control units, Electrofusion couplers, Electrofusion fittings, Electrofusion saddles, Fittings, Butt fusion, mm	Oman
NIGC	Certificate acc IGS-MS-PL-014 part 2	PE 100	Electrofusion couplers, Electrofusion fittings, Electrofusion saddles, Fittings, Spigot	Iran
ON	ON-N 2005 120 ... 130	PE 100, PE 100/Steel	Electrofusion branch fitting, Electrofusion couplers, Electrofusion fittings, Electrofusion saddles, Electrofusion tapping valves, Fittings, Spigot, Fittings, Transition	Austria
ÖVGW	G 1.321	PE 100, PE 80	Electrofusion branch fitting, Electrofusion couplers, Electrofusion fittings, Electrofusion saddles, Electrofusion tapping valves, Fittings, Socket fusion, mm, Fittings, Spigot	Austria
ÖVGW	G 2.450	PE 100/Steel	Fittings, Transition	Austria
ÖVGW	W 1.229	PE 100, PE 100/Brass, PE 100/Steel, PE 80	Electrofusion branch fitting, Electrofusion couplers, Electrofusion fittings, Electrofusion saddles, Electrofusion tapping valves, Fittings, Socket fusion, mm, Fittings, Spigot, Fittings, Transition	Austria
PROMNAZOR	7/727-1140	PE 100, PE 80	Electrofusion couplers, Electrofusion saddles, Fittings, Spigot	Kasastan
SVGW	G 02-014-9	PE 100, PE 100/Steel, PE 80	Electrofusion branch fitting, Electrofusion couplers, Electrofusion fittings, Electrofusion saddles, Electrofusion tapping valves, Fittings, Spigot, Fittings, Transition	Switzerland
SVGW	W 9506-K 192	PE 100, PE 100/Brass, PE 100/Steel, PE 80	Electrofusion branch fitting, Electrofusion couplers, Electrofusion fittings, Electrofusion saddles, Electrofusion tapping valves, Fittings, Spigot, Fittings, Transition	Switzerland
WBS	9901515	PE 100	Fittings	United Kingdom
WIS	Test Report acc WIS 4-32-14 Section 7.9	PE 100	Electrofusion couplers	United Kingdom
WRAS	101101	PE 100	Electrofusion couplers	United Kingdom



ELGEF® Plus
Electrofusion System

ELGEF Plus Couplers
ELGEF Plus Electrofusion
ELGEF Plus Transition Fitttings

ELGEF Plus assembly instructions for sockets, fittings and transition adaptors

Sequence of tasks	Socket Fittings d 20–d 63	Socket Fittings d 75–d 500	Terminal caps d 20–d 63	Terminal caps kit d 75–d 225	Transition adaptor d 20–d 63	Transition adaptor with loose cl nut d 20–d 63
1 Clean pipe(s), cut at right angles and trim	■	■	■	■	■	■
2 Remove oxide film of pipe(s) using scraper	■	■	■	■	■	■
3 Clean pipe(s) in fusion zone with duster and PE cleaner	■	■	■	■	■	■
4 Mark the insertion depth on the pipe *1	▒	▒	▒	▒		
5 Remove fitting(s) from the packaging without touching the fusion surface	■	■	■	■	■	■
6 Screw or unscrew transfer adaptor					■	▒
7 Push in the PE pipe up to center stop or marking	■	■	■	■		
8 Firmly fasten integrated bracket	■		■			
> Mount and fix assembly attachment		■		■		
10 Slide in second pipe up to center stop or marking	■	■			■	■
11 Firmly fasten integrated bracket	■				■	■
12 Mount and fix assembly attachment		■		■		
13 Fusion in accordance with operating instructions of the unit	■	■	■	■	■	■
14 After fusion: Check fusion indicator on fitting and fusion unit display, then remove cable	■	■	■	■	■	■
15 Wait for cooling, finally remove assembly attachment *2		■		■		
16 Screw or unscrew transition adaptor with loose clamping nut (if required)						▒
17 Wait minimum waiting time until pressure test, then conduct pressure test *2	■	■	■	■	■	■

■ = compulsory ▒ = if required

4

*1 Insertion depth L1 in mm

d		(mm)	20	25	32	40	50	63	75	>0	110	125	140	160	180	200	225	250	280	315	355	400	450	500
L1	SDR 11	(mm)	34	34	36	40	44	48	55	62	72	79	84	90	97	104	112	112	112	112	122	122	–	–
L1	SDR 17	(mm)	–	–	–	–	–	–	–	–	–	–	–	95	100	105	110	123	135	123	123	123	145	145

*2 Minimum cooling time for sockets and fittings in minutes

d	SDR	Remove bracket	Pressure test p<= 6 bar	p<= 24 bar
(mm)		(min)	(min)	(min)
20– 63	11	6	10	30
75–110	11	10	20	60
125–160	11	15	30	75
180–225	11	20	45	90
250–400	11	30	60	150
450–500	–	–	–	–

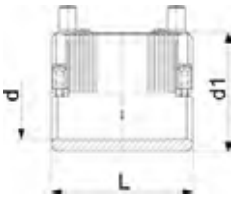
SDR	Remove bracket	Pressure test p<= 6 bar	p<= 24 bar
	(min)	(min)	(min)
–	–	–	–
–	–	–	–
17	15	30	75
17	20	45	90
17	30	60	150
17	40	60	150

p = test pressure

ELGEF® Plus Electrofusion Fittings

53 91 16

Coupler
with integral pipe fixation



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop

d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	z [mm]
20	**753 911 606**	50	0.054	-	31	68	2
25	**753 911 607**	50	0.060	-	36	68	2
32	**753 911 608**	50	0.072	-	44	72	2
40	**753 911 609**	50	0.100	-	54	80	2
50	**753 911 610**	10	0.136	-	66	88	2
63	**753 911 611**	10	0.194	-	81	96	2

PF 2 51 312

53 91 16

Coupler

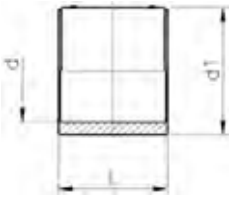
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop up to d160

d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	z [mm]
75	**753 911 612**	12	0.287	-	96	110	2
90	**753 911 613**	10	0.421	-	113	125	2
110	**753 911 614**	5	0.697	-	138	145	2
125	**753 911 615**	5	0.738	-	154	158	3
140	**753 911 616**	5	0.968	-	172	168	3
160	**753 911 617**	6	1.390	-	196	180	3
180	**753 911 618**	4	1.750	-	219	194	
200	**753 911 619**	2	2.350	-	244	208	
225	**753 911 620**	2	3.160	-	273	224	
250	**753 911 621**	2	4.345	-	304	244	
280	**753 911 622**	1	5.675	-	340	252	
315	**753 911 623**	1	8.000	-	382	268	
355	**753 911 624**	1	12.110	-	432	246	
400	**753 911 625**	1	15.993	-	487	246	

PF 2 51 312

53 91 18

Coupler



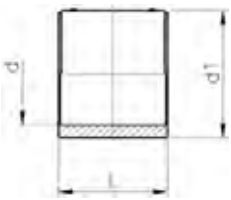
- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- d160 with removable centre stop

d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]
160	**753 911 817**	6	1.050	-	186	180
180	**753 911 818**	4	1.450	-	213	194
200	**753 911 819**	2	1.800	-	233	208
225	**753 911 820**	2	2.385	-	261	224
250	**753 911 821**	2	4.345	-	304	244
280	**753 911 822**	1	5.675	-	340	252
315	**753 911 823**	1	8.000	-	382	268
355	**753 911 824**	1	8.200	-	414	246
400	**753 911 825**	1	15.993	-	487	246
450	**753 911 826**	1	15.500	-	522	290
500	**753 911 827**	1	19.000	-	579	290

PF 2 51 312

53 91 18

Coupler

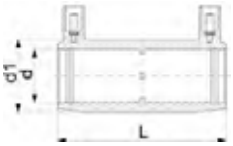


- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- 2 separate welding zones
- **Installation only with pressure pad kit (799 301 561)**
- Standard welding units required with steady output power of 2500 W
- For generator use: output power of min. 5 kW recommended

d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]
New 560	**753 911 828**	-	25.500	1	638	392
New 630	**753 911 829**	-	35.000	1	716	442

PF 2 51 312

Coupler long



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Removable centre stop

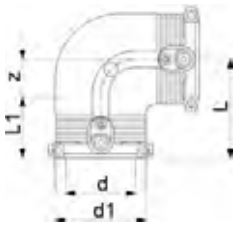
d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	z [mm]
32	**753 911 208**	-	0.084	1	44	104	2
40	**753 911 209**	128	0.135	1	56	121	2
50	**753 911 210**	96	0.215	1	68	139	2
63	**753 911 211**	48	0.318	1	82	166	2

PF 2 51 312

53 10 16

Elbow 90°
with integral pipe fixation

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators



d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	z [mm]
20	**753 101 606**	10	0.093	-	35	54	34	20
25	**753 101 607**	10	0.078	-	35	54	34	20
32	**753 101 608**	10	0.098	-	44	53	36	17
40	**753 101 609**	10	0.142	-	54	62	39	23
50	**753 101 610**	10	0.215	-	66	71	43	28
63	**753 101 611**	10	0.280	-	81	81	48	32

PF 2 51 314

53 10 18

Elbow 90°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

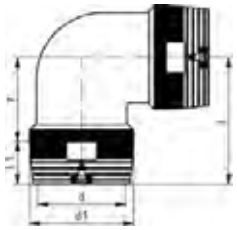
d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	z [mm]
75	**753 101 812**	33	0.530	-	97	101	61	40
90	**753 101 813**	15	0.676	-	115	122	62	60
110	**753 101 814**	8	1.190	-	140	147	72	76
125	**753 101 815**	10	1.560	-	151	142	74	68
160	**753 101 817**	4	2.200	-	196	178	92	86
180	**753 101 818**	1	4.286	-	219	195	95	100

PF 2 51 314

53 10 18

Elbow 90°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones



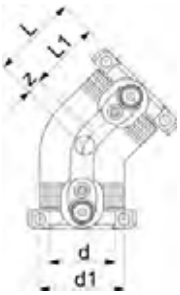
d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	z [mm]
200	**753 101 819**	1	8.923	-	245	265	104	161
225	**753 101 820**	1	12.440	-	274	305	112	193
250	**753 101 821**	1	15.800	-	305	335	123	212

PF 2 51 314

53 15 16

Elbow 45°
with integral pipe fixation

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators



d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	z [mm]
32	**753 151 608**	20	0.087	-	44	44	36	8
40	**753 151 609**	10	0.121	-	54	50	39	11
50	**753 151 610**	10	0.140	-	66	56	43	13
63	**753 151 611**	10	0.274	-	81	63	48	15

PF 2 51 314

53 15 18

Elbow 45°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

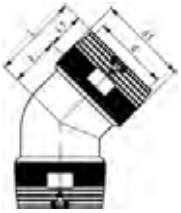
d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	z [mm]
75	**753 151 812**	40	0.437	-	97	79	62	17
90	**753 151 813**	20	0.537	-	115	91	62	29
110	**753 151 814**	12	0.974	-	140	112	72	40
125	**753 151 815**	6	1.166	-	151	107	74	33
160	**753 151 817**	5	1.800	-	196	134	92	42
180	**753 151 818**	1	3.200	-	217	142	95	47

PF 2 51 314

53 15 18

Elbow 45°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

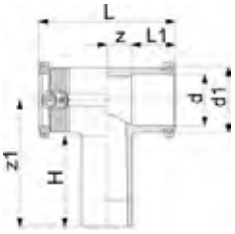


d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	z [mm]
200	**753 151 819**	1	7.405	-	245	215	104	111
225	**753 151 820**	1	10.590	-	274	235	112	123
250	**753 151 821**	1	13.580	-	305	263	123	140

PF 2 51 314

53 21 16

Tee 90°, equal with integral pipe fixation



PF 2 51 314

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
20	**753 211 606**	10	0.100	-	35	90	34	11	92	67
25	**753 211 607**	10	0.088	-	35	90	34	11	92	70
32	**753 211 608**	10	0.115	-	44	102	36	15	100	74
40	**753 211 609**	10	0.176	-	54	120	39	21	114	82
50	**753 211 610**	5	0.268	-	66	135	43	24	126	90
63	**753 211 611**	5	0.429	-	81	152	48	28	150	102

53 20 18

Tee 90° equal

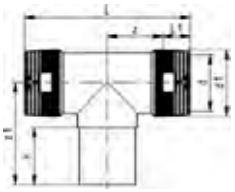
PF 2 51 314

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
75	**753 201 812**	26	0.597	-	97	187	61	33	126	78
90	**753 201 813**	10	0.910	-	115	205	62	41	161	94
110	**753 201 814**	6	1.420	-	140	255	72	56	184	104
125	**753 201 815**	4	1.980	-	151	256	75	53	174	92
160	**753 201 817**	3	4.893	-	196	325	92	71	206	103
180	**753 201 818**	2	6.770	-	225	344	90	82	250	110

53 20 18

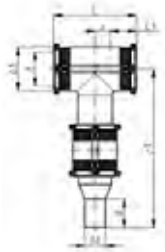
Tee 90°, equal



PF 2 51 314

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
200	**753 201 819**	1	10.800	-	245	560	104	176	250	117
225	**753 201 820**	1	15.145	-	274	610	112	193	270	122
250	**753 201 821**	1	19.000	-	305	667	123	211	288	127



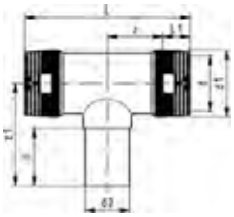
PF 2 51 314

Tee 90°, reduced (Kit)

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler and Spigot Reducer

d [mm]	d2 [mm]	Code	kg	SID	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
40	20	**193 281 004**	0.314	-	54	120	39	21	244	212
40	25	**193 281 005**	0.319	-	54	120	39	21	244	212
75	40	**193 280 998**	1.060	-	97	187	61	33	296	248
90	50	**193 280 999**	1.620	-	112	202	61	41	336	274
110	63	**193 280 961**	2.670	-	136	242	65	56	366	293
125	63	**193 280 963**	3.690	-	151	256	75	53	361	279
125	110	**193 280 965**	3.920	-	151	256	75	53	389	307
160	125	**193 280 969**	8.250	-	196	325	92	71	451	348
180	90	**193 281 032**	10.056	-	225	344	90	82	487	347
180	110	**193 281 033**	10.246	-	225	344	90	82	495	355

53 21 10



PF 2 51 314

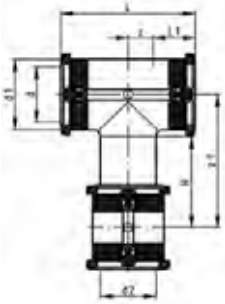
Tee 90°, reduced

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	d2 [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
160	63	**753 211 037**	2	5.480	-	196	405	90	113	176	65
160	90	**753 211 039**	2	5.580	-	196	405	90	113	188	79
160	110	**753 211 040**	2	5.700	-	196	405	90	113	195	85
200	90	**753 211 059**	-	11.260	-	245	557	104	175	215	81
200	110	**753 211 060**	-	11.260	-	245	557	104	175	218	84
200	160	**753 211 063**	-	11.260	-	245	557	104	175	236	101
225	90	**753 211 069**	1	13.520	-	274	615	112	196	226	80
225	110	**753 211 070**	1	13.570	-	274	615	112	196	235	85
225	160	**753 211 073**	1	14.020	-	274	615	112	196	255	105
250	110	**753 211 080**	-	11.260	-	305	668	123	211	245	85
250	160	**753 211 083**	-	11.260	-	305	668	123	211	264	101

53 20 16

Tee 90° with weldable outlet (Kit) equal or reduced



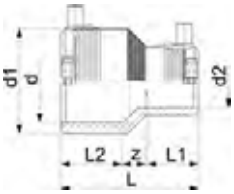
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler or ELGEF® Plus Reducer

d [mm]	d2 [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
20	20	**753 201 606**	6	0.170	-	35	90	34	11	92	67
25	25	**753 201 607**	6	0.170	-	35	90	34	11	92	70
32	32	**753 201 608**	8	0.213	-	44	102	36	15	100	74
40	32	**193 281 006**	-	0.248	-	54	120	39	21	127	95
40	40	**753 201 609**	6	0.295	-	54	120	39	21	114	82
50	32	**193 281 007**	-	0.364	-	66	135	43	24	144	108
50	40	**193 281 008**	-	0.404	-	66	135	43	24	140	104
50	50	**753 201 610**	4	0.419	-	66	135	43	24	126	90
63	32	**193 280 997**	-	0.550	-	81	152	48	28	173	125
63	40	**193 281 009**	-	0.605	-	81	152	48	28	169	121
63	50	**193 281 010**	-	0.618	-	81	152	48	28	165	117
63	63	**753 201 611**	4	0.641	-	81	152	48	28	150	102
90	63	**193 281 011**	3	1.300	-	112	202	61	41	182	120
90	90	**753 201 613**	3	1.450	-	112	202	61	41	146	84
110	90	**193 281 012**	2	2.294	-	136	242	65	56	200	127
110	110	**753 201 614**	2	2.400	-	136	242	65	56	161	88
125	90	**193 281 013**	-	2.850	-	151	256	75	53	214	132
125	125	**753 201 615**	1	2.930	-	151	256	75	53	174	92
160	110	**193 281 030**	-	6.093	-	196	325	92	71	271	168
160	160	**753 201 617**	1	6.664	-	196	325	92	71	206	103
180	125	**193 281 031**	-	8.770	-	225	344	90	82	330	190
180	180	**753 201 618**	1	9.600	-	225	344	90	82	250	110

PF 2 51 314

53 90 16

Reducer with integral pipe fixation



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	d2 [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]
25	20	**753 901 639**	20	0.059	-	35	74	34	34	6
32	20	**753 901 640**	20	0.071	-	44	79	33	36	10
32	25	**753 901 641**	20	0.060	-	44	79	33	36	10
40	20	**753 901 644**				54	88	33	40	15
40	25	**753 901 645**				54	88	33	40	15
40	32	**753 901 646**	20	0.072	-	54	88	33	39	13
50	32	**753 901 651**	10	0.096	-	66	96	35	43	18
50	40	**753 901 652**	15	0.136	-	66	96	39	43	14
63	32	**753 901 656**	10	0.171	-	81	106	35	48	23
63	40	**753 901 657**	10	0.176	-	81	106	39	48	19
63	50	**753 901 658**	10	0.189	-	81	106	43	48	15

PF 2 51 314

53 90 18

Reducer

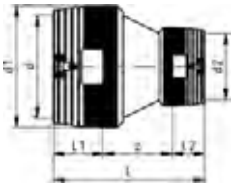
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	d2 [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]
90	63	**753 901 831**	30	0.360	-	113	146	63	47	36
110	90	**753 901 833**	22	0.657	-	138	173	73	63	38
125	90	**753 901 836**	6	0.870	-	152	180	79	61	40
160	110	**753 901 834**	5	1.200	-	196	226	91	70	65
180	125	**753 901 835**	4	2.000	-	220	247	97	70	80

PF 2 51 314

53 90 18

Reducer



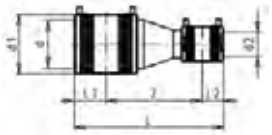
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	d2 [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]
200	160	**753 901 837**	1	4.610	-	245	311	104	90	117
225	160	**753 901 838**	1	5.850	-	274	331	112	90	129
250	160	**753 901 840**	2	7.710	-	305	362	123	90	149
250	200	**753 901 841**	2	8.010	-	305	380	123	104	153

PF 2 51 314

93 28 09

Reducer (Kit)



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler and Spigot Reducer

d [mm]	d2 [mm]	Code	kg	SID	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]
40	20	**193 280 956**	0.192	-	54	204	40	34	130
40	25	**193 280 957**	0.203	-	54	204	40	34	130
75	40	**193 280 992**	0.567	-	96	265	55	40	170
75	50	**193 280 993**	0.610	-	96	269	55	44	170
75	63	**193 280 994**	0.700	-	96	273	55	48	170
90	50	**193 280 958**	0.848	-	113	297	63	44	190
90	75	**193 280 995**	1.070	-	113	308	63	55	190
110	63	**193 280 950**	1.490	-	138	326	73	48	205
110	75	**193 280 996**	1.480	-	138	333	73	55	205
125	63	**193 280 953**	1.580	-	154	314	79	48	187
125	110	**193 280 951**	2.360	-	154	367	79	73	215
160	90	**193 280 954**	3.060	-	196	370	90	63	217
160	125	**193 280 952**	3.680	-	196	414	90	79	245
180	110	**193 280 959**	4.167	-	214	413	95	73	245

PF 2 51 314

53 96 16

End Cap
with integral pipe fixation

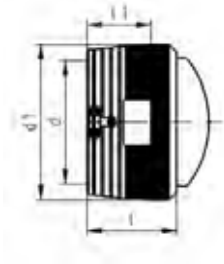
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]
20	**753 961 606**	50	0.038	-	35	52	44
25	**753 961 607**	50	0.030	-	35	52	44
32	**753 961 608**	50	0.080	-	44	52	44
40	**753 961 609**	50	0.074	-	54	56	47
50	**753 961 610**	10	0.086	-	66	60	49
63	**753 961 611**	10	0.154	-	81	66	54

PF 2 51 314

53 96 16

End Cap



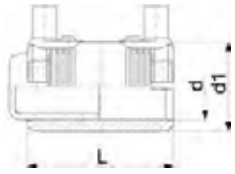
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]
160	**753 961 617**	2	2.000	-	196	129	90
200	**753 961 619**	2	3.370	-	245	147	104
225	**753 961 620**	4	4.470	-	274	157	112
250	**753 961 621**	1	6.890	-	305	173	123

PF 2 51 314

53 96 17

End cap (Kit)



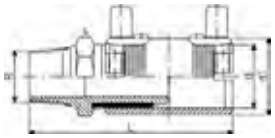
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler
- * Article to be discontinued, replaced by 53 96 16

d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]
75	**753 961 712**	6	0.446	-	96	110
90	**753 961 713**	5	0.680	-	113	125
110	**753 961 714**	3	1.126	-	133	145
125	**753 961 715**	3	1.594	-	155	158
140	**753 961 716**	3	2.250	-	175	170
*160	**753 961 717**	1	2.712	-	197	180
180	**753 961 718**	1	4.136	-	220	194
*200	**753 961 719**	1	4.906	-	245	208
*225	**753 961 720**	1	6.500	-	296	224

PF 2 51 314

20 92 07

Transition Coupler PE/brass (Ms 58) Male Thread



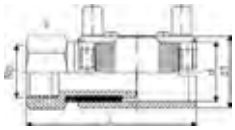
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit

d [mm]	R [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]	s [mm]
20	½	**720 920 756**	6	0.217	-	31	110	30
20	1	**720 920 754**	6	0.344	-	44	124	40
25	¾	**720 920 757**	6	0.280	-	36	111	35
25	1	**720 920 763**	6	0.364	-	44	124	40
32	½	**720 920 764**	6	0.235	-	44	121	30
32	¾	**720 920 765**	6	0.287	-	44	122	35
32	1	**720 920 758**	6	0.355	-	44	117	40
32	1 ¼	**720 920 766**	6	0.543	-	54	135	50
32	1 ½	**720 920 767**	6	0.685	-	60	143	60
32	2	**720 920 768**	6	1.000	-	81	157	70
40	1	**720 920 771**	6	0.387	-	54	133	40
40	1 ¼	**720 920 759**	6	0.541	-	54	127	50
40	1 ½	**720 920 772**	3	0.694	-	66	143	60
40	2	**720 920 773**	3	0.992	-	81	157	70
50	1	**720 920 776**	6	0.416	-	66	141	40
50	1 ¼	**720 920 777**	3	0.578	-	66	143	50
50	1 ½	**720 920 760**	6	0.670	-	66	135	60
50	2	**720 920 778**	3	0.994	-	81	157	70
63	1	**720 920 781**	3	0.460	-	81	151	40
63	1 ¼	**720 920 782**	3	0.626	-	81	153	40
63	1 ½	**720 920 783**	3	0.741	-	81	153	60
63	2	**720 920 761**	4	1.005	-	81	147	70

PF 2 51 314

20 92 02

Transition Coupler PE/brass (Ms 58) Female Thread



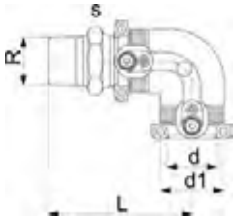
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit

d [mm]	Rp [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]	s [mm]
32	1	**720 920 258**	6	0.338	-	44	108	40
40	1 ¼	**720 920 259**	6	0.511	-	54	118	50
50	1 ½	**720 920 260**	6	0.744	-	66	126	60
63	1	**720 920 281**	3	1.280	-	81	138	70
63	1 ¼	**720 920 282**	3	1.230	-	81	138	70
63	1 ½	**720 920 283**	3	1.115	-	81	138	70
63	2	**720 920 261**	3	1.016	-	81	138	70

PF 2 51 314

20 10 07

Transition Elbow 90° PE/brass (Ms 58) Male Thread



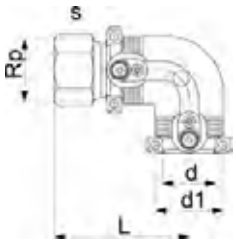
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit

d [mm]	R [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]	s [mm]
20	½	**720 100 756**	6	0.240	-	31	96	30
25	¾	**720 100 757**	6	0.260	-	36	97	35
32	1	**720 100 758**	6	0.383	-	44	98	40
32	1 ¼	**720 100 766**	6	0.500	-	44	100	50
32	1 ½	**720 100 767**	6	0.562	-	44	100	60
40	1	**720 100 771**	6	0.528	-	54	107	50
40	1 ¼	**720 100 759**	6	0.584	-	54	109	50
40	1 ½	**720 100 772**	6	0.642	-	54	109	60
50	1	**720 100 776**	6	0.710	-	66	116	60
50	1 ¼	**720 100 777**	6	0.771	-	66	118	60
50	1 ½	**720 100 760**	6	0.757	-	66	118	60
63	1 ¼	**720 100 782**	3	1.040	-	81	128	70
63	1 ½	**720 100 783**	3	1.045	-	81	128	70
63	2	**720 100 761**	3	1.115	-	81	132	70

PF 2 51 314

20 10 02

Transition Elbow 90° PE/brass (Ms 58) Female Thread



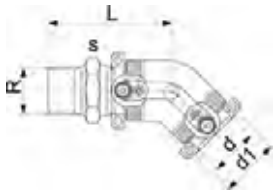
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit

d [mm]	Rp [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]	s [mm]
32	1	**720 100 258**	6	0.365	-	44	89	40
40	1 ¼	**720 100 259**	6	0.556	-	54	100	50
50	1 ½	**720 100 260**	6	0.819	-	66	109	60
63	1	**720 100 281**	3	1.420	-	81	123	70
63	1 ¼	**720 100 282**	3	1.380	-	81	123	70
63	1 ½	**720 100 283**	3	1.305	-	81	123	70
63	2	**720 100 261**	3	1.165	-	81	123	70

PF 2 51 314

20 15 07

Transition Elbow 45° PE/brass (Ms 58) Male Thread



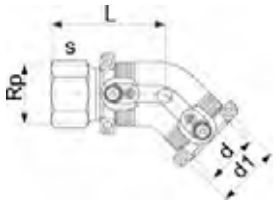
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit

d [mm]	R [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]	s [mm]
32	1	**720 150 758**	6	0.374	-	44	89	40
32	1 ¼	**720 150 766**	6	0.380		44	91	50
32	1 ½	**720 150 767**	6	0.587	-	44	91	60
40	1	**720 150 771**	6	0.510	-	54	95	50
40	1 ¼	**720 150 759**	6	0.560	-	54	97	50
40	1 ½	**720 150 772**	6	0.656	-	54	97	60
50	1	**720 150 776**	6	0.670	-	66	101	60
50	1 ¼	**720 150 777**	6	0.740	-	66	103	60
50	1 ½	**720 150 760**	6	0.720	-	66	103	60
63	1 ¼	**720 150 782**	3	1.043	-	81	110	70
63	1 ½	**720 150 783**	3	0.990	-	81	110	70
63	2	**720 150 761**	3	1.069	-	81	114	70

PF 2 51 314

20 15 02

Transition Elbow 45° PE/brass (Ms 58) Female Thread



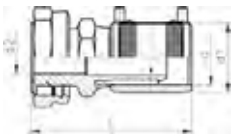
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit

d [mm]	Rp [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]	s [mm]
32	1	**720 150 258**	6	0.354	-	44	80	40
40	1 ¼	**720 150 259**	6	0.530	-	54	88	50
50	1 ½	**720 150 260**	6	0.780	-	66	94	60
63	1	**720 150 281**	3	1.360	-	81	105	70
63	1 ¼	**720 150 282**	3	1.373	-	81	105	70
63	1 ½	**720 150 283**	3	1.293	-	81	105	70
63	2	**720 150 261**	3	1.090	-	81	105	70

PF 2 51 314

20 91 00

Transition Coupler PE/brass (Ms 58) with loose Nut



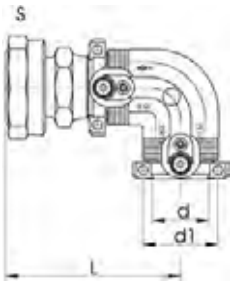
- **PE 100 SDR 11** (ISO S5)
- Gas on request / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Delivered as a kit. Further combinations modular system with threaded adapter and reductions
- Incl. flat gasket for water applications (KTW / WRC approved)

d [mm]	Rp [inch]	Code	GP	kg	SID	d1 [mm]	d2 [mm]	L [mm]
25	¾	**720 910 007**	8	0.240	-	36	15	104
25	1	**720 910 017**	8	0.315	-	36	16	106
32	1	**720 910 008**	6	0.342	-	44	20	110
32	1 ¼	**720 910 018**	6	0.460	-	44	22	114
32	1 ½	**720 910 028**	6	0.480	-	44	22	114
40	1	**720 910 009**	6	0.465	-	54	21	119
40	1 ¼	**720 910 019**	6	0.520	-	54	25	123
40	1 ½	**720 910 029**	6	0.595	-	54	28	123
50	1	**720 910 020**	6	0.685	-	66	20	128
50	1 ¼	**720 910 030**	3	0.730	-	66	25	133
50	1 ½	**720 910 010**	3	0.774	-	66	29	133
50	2	**720 910 040**	3	0.980	-	66	36	137
63	1	**720 910 021**	3	1.025	-	81	20	137
63	1 ¼	**720 910 031**	3	1.060	-	81	25	141
63	1 ½	**720 910 041**	3	1.070	-	81	29	141
63	2	**720 910 011**	3	1.235	-	81	36	145
63	2 ½	**720 910 051**	3	1.495	-	81	46	148

PF 2 51 314

20 10 00

Transition Elbow 90° PE/brass (Ms 58) with loose Nut



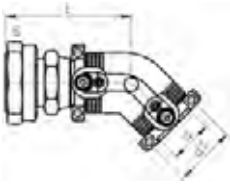
- **PE 100 SDR 11** (ISO S5)
- Gas on request / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit
- Incl. flat gasket for water applications (KTW / WRC approved)

d [mm]	Rp [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]
25	¾	**720 100 007**	8	0.260	-	36	90
25	1	**720 100 017**	8	0.335	-	36	92
32	1	**720 100 008**	6	0.370	-	44	91
32	1 ¼	**720 100 018**	6	0.490	-	44	95
32	1 ½	**720 100 028**	6	0.505	2	44	95
40	1	**720 100 009**	6	0.505	-	54	101
40	1 ¼	**720 100 019**	6	0.565	-	54	105
40	1 ½	**720 100 029**	6	0.635	-	54	105
50	1	**720 100 020**	6	0.760	-	66	111
50	1 ¼	**720 100 030**	3	0.805	2	66	116
50	1 ½	**720 100 010**	6	0.850	-	66	116
50	2	**720 100 040**	3	1.060	-	66	120
63	1	**720 100 021**	3	1.171	-	81	121
63	1 ¼	**720 100 031**	3	1.200	2	81	125
63	1 ½	**720 100 041**	6	1.210	-	81	125
63	2	**720 100 011**	3	1.375	-	81	129
63	2 ½	**720 100 051**	3	1.635	2	81	132

PF 2 51 314

20 15 00

Transition Elbow 45° PE/brass (Ms 58) with loose Nut



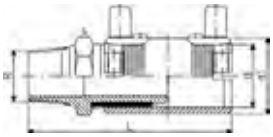
- **PE 100 SDR 11** (ISO S5)
- Gas on request / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit
- Incl. flat gasket for water applications (KTW / WRC approved)

d [mm]	Rp [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]
32	1	**720 150 008**	6	0.355	-	44	82
32	1 ¼	**720 150 018**	6	0.475	-	44	86
32	1 ½	**720 150 028**	6	0.495	2	44	86
40	1	**720 150 009**	6	0.485	-	54	89
40	1 ¼	**720 150 019**	6	0.540	2	54	93
40	1 ½	**720 150 029**	6	0.615	-	54	93
50	1	**720 150 020**	6	0.725	2	66	96
50	1 ¼	**720 150 030**	6	0.770	2	66	101
50	1 ½	**720 150 010**	6	0.815	2	66	101
50	2	**720 150 040**	3	1.024	-	66	105
63	1	**720 150 021**	6	1.105	2	81	104
63	1 ¼	**720 150 031**	6	1.140	2	81	108
63	1 ½	**720 150 041**	6	1.150	2	81	108
63	2	**720 150 011**	3	1.315	-	81	112
63	2 ½	**720 150 051**	6	1.575	2	81	115

PF 2 51 314

24 92 07

Transition Coupler PE/steel (stainless 1.4305) Male Thread



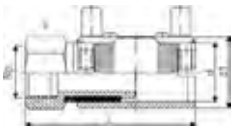
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Delivered as a kit. Further combinations modular system with threaded adapter and reductions

d [mm]	R [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]	s [mm]
20	½	**724 920 756**	6	0.210	-	31	110	30
25	¾	**724 920 757**	6	0.260	-	36	111	35
32	1	**724 920 758**	6	0.347	-	44	117	40
32	1 ½	**724 920 767**	6	0.330	-	44	125	60
40	1 ¼	**724 920 759**	6	0.519	-	54	127	50
40	1 ½	**724 920 772**	6	0.690	-	66	143	60
50	1 ½	**724 920 760**	6	0.657	-	66	135	60
63	1 ½	**724 920 771**	3	0.904	-	81	147	70
63	2	**724 920 761**	3	0.963	-	81	147	70

PF 2 51 314

24 92 02

Transition Coupler PE/steel (stainless 1.4305) Female Thread



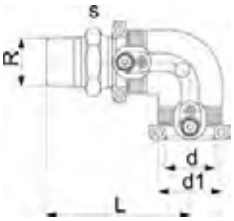
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit

d [mm]	Rp [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]	s [mm]
20	½	**724 920 256**	6	0.197	-	31	100	30
25	¾	**724 920 257**	6	0.253	-	36	101	35
32	1	**724 920 258**	6	0.340	-	44	108	40
40	1 ¼	**724 920 259**	6	0.505	-	54	118	50
50	1 ½	**724 920 260**	6	0.725	-	66	126	60
63	2	**724 920 261**	3	0.995	-	81	138	70

PF 2 51 314

24 10 07

Transition Elbow 90° PE/steel (stainless 1.4305) Male Thread



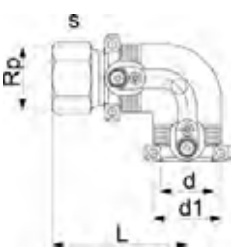
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit

d [mm]	R [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]	s [mm]
20	½	**724 100 756**	6	0.211	-	31	96	30
25	¾	**724 100 757**	6	0.230	-	36	97	35
32	1	**724 100 758**	6	0.370	-	44	98	40
40	1 ¼	**724 100 759**	6	0.560	-	54	109	50
40	1 ½	**724 100 772**	6	0.730	-	54	109	60
50	1 ½	**724 100 760**	6	0.730	-	66	118	60
63	1 ½	**724 100 771**	3	1.040	-	81	132	70
63	2	**724 100 761**	3	1.105	-	81	132	70

PF 2 51 314

24 10 02

Transition Elbow 90° PE/steel (stainless 1.4305) Female Thread



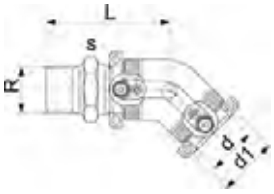
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit

d [mm]	Rp [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]	s [mm]
20	½	**724 100 256**	6	0.211	-	31	86	30
25	¾	**724 100 257**	6	0.237	-	36	87	35
32	1	**724 100 258**	6	0.360	-	44	89	40
40	1 ¼	**724 100 259**	6	0.545	-	54	100	50
50	1 ½	**724 100 260**	6	0.805	-	66	109	60
63	2	**724 100 261**	3	1.135	-	81	123	70

PF 2 51 314

24 15 07

Transition Elbow 45° PE/steel (stainless 1.4305) Male Thread



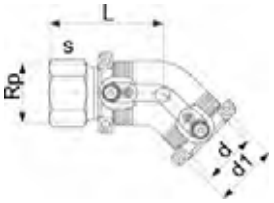
PF 2 51 314

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit

d [mm]	R [inch]	Code	GP	kg	d1 [mm]	L [mm]	s [mm]
32	1	**724 150 758**	6	0.360	44	98	40
40	1 ¼	**724 150 759**	6	0.540	54	97	50
40	1 ½	**724 150 772**	6	0.710	54	97	60
50	1 ½	**724 150 760**	6	0.700	66	103	60
63	1 ½	**724 150 771**	6	0.980	81	114	70
63	2	**724 150 761**	3	1.045	81	114	70

24 15 02

Transition Elbow 45° PE/steel (stainless 1.4305) Female Thread



PF 2 51 314

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit

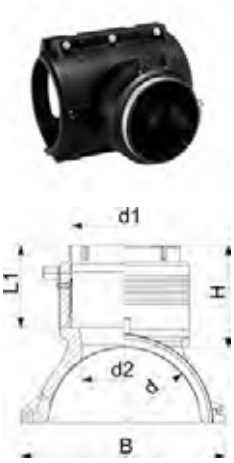
d [mm]	Rp [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]	s [mm]
32	1	**724 150 258**	6	0.350	-	44	80	40
40	1 ¼	**724 150 259**	6	0.525	-	54	88	50
50	1 ½	**724 150 260**	6	0.765	-	66	94	60
63	2	**724 150 261**	3	1.060	-	81	105	70

ELGEF® Plus
Electrofusion System

ELGEF Plus Branch Fitting
ELGEF Plus Modular System
ELGEF Plus Saddles/Valves

ELGEF® Plus Branch Fitting

51 336 001



Branch Fitting

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Fitting complete, incl. lower part and 3 screws
- Additional fixing with snatch hinge
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators
- * Delivered without lower part. Pipe fixation with multiple use assembly tool no. 193 281 027
- Dimension d 280 - 630 mm in preparation

d [mm]	d1 [mm]	Code	GP	kg	SID	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]	
110	90	**193 135 009**	4	1.074	-	101	220	82	164	65	
110	110	**193 135 010**	4	1.152	-	107	220	88	164	65	
125	90	**193 135 019**	4	1.134	-	101	220	82	179	65	
125	110	**193 135 020**	4	1.258	-	107	220	88	179	65	
*140	90	**193 135 029**	4	1.134	-	101	220	81	195	65	
*140	110	**193 135 030**	4	1.258	-	107	220	87	195	65	
160	90	**193 135 039**	4	1.444	-	102	240	82	215	65	
160	110	**193 135 040**	4	1.523	-	108	240	88	215	86	
160	125	**193 135 041**	4	1.738	-	129	240	99	215	86	
180	90	**193 135 049**	1	1.714	-	102	260	82	237	65	
180	110	**193 135 050**	1	1.782	-	108	260	88	237	86	
180	125	**193 135 051**	1	1.972	-	129	260	99	237	86	
200	90	**193 135 059**	1	1.811	-	102	260	82	253	65	
200	110	**193 135 060**	1	1.879	-	108	260	88	253	86	
200	125	**193 135 061**	1	2.069	-	129	260	99	253	86	
225	90	**193 135 069**	1	1.959	-	102	260	82	287	65	
225	110	**193 135 070**	1	2.027	-	108	260	88	287	86	
225	125	**193 135 071**	1	2.217	-	129	260	99	287	86	
250	90	**193 135 079**	1	2.116	-	102	260	82	312	65	
250	110	**193 135 080**	2	2.184	-	108	260	88	312	86	
250	125	**193 135 081**	1	2.374	-	129	260	99	312	86	

PF 2 51 336

Multiple use Assembly Tool Branch fitting d140mm

- Only to be used with Branch Fitting d140mm
- Delivered as complete Kit including screws and belt

d [mm]	Code	kg	SID	
140	**193 281 027**	0.740	3	

PF 2 51 336

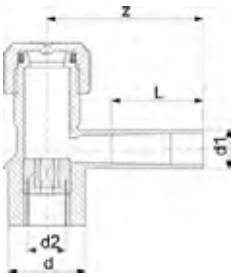
Cross Connection Branch Fitting

d [mm]	d1 [mm]	Code	kg	SID	
110	160	**193 280 880**	0.250	-	
180	250	**193 280 881**	0.250	-	

PF 2 51 336

ELGEF® Plus Modular System

Tapping Tee

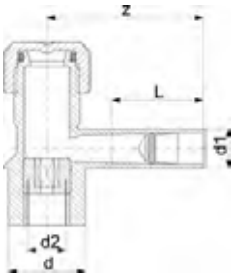


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- For ELGEF® Plus Branch Saddle (53 131 000) d63-225, pipe SDR 11
- For ELGEF® Plus Branch Saddle (53 131 000) d75-315, pipe SDR 17
- * For ELGEF® Plus Branch Saddle (53 131 000) d110-315, pipe SDR 11
- Long fusion outlet
- O-ring sealed screw-cap

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	L [mm]	z [mm]	SW [mm]	
63	20	**193 280 358**	15	0.384	-	32	69	130	17	
63	25	**193 280 359**	15	0.383	-	32	70	130	17	
63	32	**193 280 184**	12	0.383	-	32	76	130	17	
63	40	**193 280 360**	12	0.401	-	32	81	137	17	
63	63	**193 280 185**	12	1.120	-	32	100	160	17	
*63	63	**193 280 711**	12	1.120	-	35	100	160	17	

PF 2 51 313

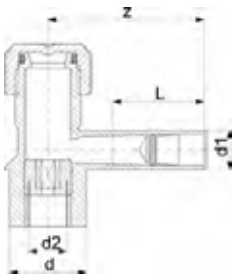
Tapping Tee with Gas-Stop Type U



- **PE 100 SDR 11** (ISO S5)
- 5 bar Gas (for pressure 35 mbar -5 bar)
- With integrated cutter to tap live mains under pressure
- For ELGEF® Plus Branch Saddle (53 131 000) d63-225, pipe SDR 11
- For ELGEF® Plus Branch Saddle (53 131 000) d75-315, pipe SDR 17
- Gas-Stop System Pipelife Type U (GS 32/35 or GS 63/35)
- **Without overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- Long fusion outlet
- O-ring sealed screw-cap

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	L [mm]	z [mm]	SW [mm]	Vn max [m³/h]	
63	32	**193 281 054**	20	0.430	1	32	76	130	17	35	
63	63	**193 281 055**	-	1.200	1	32	100	160	17	120	

PF 2 51 313

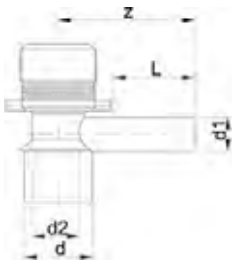


PF 2 51 313

Tapping Tee with Gas-Stop Type U UE

- **PE 100 SDR 11** (ISO S5)
- 5 bar Gas (for pressure 35 mbar -5 bar)
- With integrated cutter to tap live mains under pressure
- For ELGEF® Plus Branch Saddle (53 131 000) d63-225, pipe SDR 11
- For ELGEF® Plus Branch Saddle (53 131 000) d75-315, pipe SDR 17
- Gas-Stop System Pipelife Type U (GS 32/35 UE or GS 63/35 UE)
- **With overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- Long fusion outlet
- O-ring sealed screw-cap

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	L [mm]	z [mm]	SW [mm]	Vn max [m³/h]
63	32	**193 281 052**	20	0.430	1	32	76	130	17	35
63	63	**193 281 053**	5	1.200	1	32	100	160	17	120

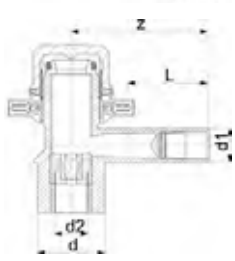


PF 2 51 313

Tapping Tee with Electrofusion Cap

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- For ELGEF® Plus Branch Saddle (53 131 000) d63-225, pipe SDR 11
- For ELGEF® Plus Branch Saddle (53 131 000) d75-315, pipe SDR 17
- Long fusion outlet

d [mm]	d1 [mm]	Code	GP	kg	SID	D2 [mm]	d2 [mm]	L [mm]	z [mm]	SW [mm]
63	32	**193 280 300**	20	0.430	-	32	32	76	130	17
63	63	**193 280 301**	5	1.200	-	32	32	100	160	17

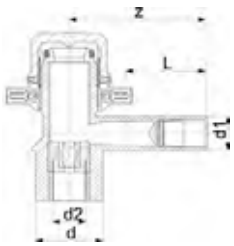


PF 2 51 313

Tapping Tee with Gas-Stop Type U and Electrofusion Cap

- **PE 100 SDR 11** (ISO S5)
- 5 bar Gas (for pressure 35 mbar -5 bar)
- With integrated cutter to tap live mains under pressure
- For ELGEF® Plus Branch Saddle (53 131 000) d63-225, pipe SDR 11
- For ELGEF® Plus Branch Saddle (53 131 000) d75-315, pipe SDR 17
- Gas-Stop System Pipelife Type U (GS 32/35 or GS 63/35)
- **Without overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- Long fusion outlet

d [mm]	d1 [mm]	Code	kg	SID	d2 [mm]	L [mm]	z [mm]	SW [mm]	Vn max [m³/h]
63	32	**193 281 048**	0.430	3	32	76	130	17	35
63	63	**193 281 049**	1.200	3	32	100	160	17	120



PF 2 51 313

Tapping Tee
with Gas-Stop Type U UE and Electrofusion Cap

- **PE 100 SDR 11** (ISO S5)
- 5 bar Gas (for pressure 35 mbar -5 bar)
- With integrated cutter to tap live mains under pressure
- For ELGEF® Plus Branch Saddle (53 131 000) d63-225, pipe SDR 11
- For ELGEF® Plus Branch Saddle (53 131 000) d75-315, pipe SDR 17
- Gas-Stop System Pipelife Type U (GS 32/35 UE or GS 63/35 UE)
- **With overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- Long fusion outlet

d [mm]	d1 [mm]	Code	kg	SID	d2 [mm]	L [mm]	z [mm]	SW [mm]	Vn max [m³/h]	
63	32	**193 281 046**	0.430	3	32	76	130	17	35	
63	63	**193 281 047**	1.200	3	32	100	160	17	120	

PF 2 51 313

Electrofusion Cap

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Tapping Saddles
- 193 280 153 suits for all Tapping Saddles Type Monobloc d63 mm and all Tapping Tee with outlet d20, d25, d32, d40 mm
- 193 280 154 suits for all Tapping Tee with outlet d63 mm

d [mm]	Code	GP	kg	SID	
55	**193 280 153**	10	0.125	-	
68	**193 280 154**	10	0.207	-	

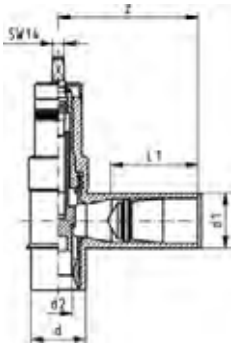
PF 2 51 313

Tapping Valve Tee

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated puncher(P) / cutter(C) to tap live mains under pressure
- For ELGEF® Plus Branch Saddle (53 131 000) d63-225, pipe SDR 11
- For ELGEF® Plus Branch Saddle (53 131 000) d75-315, pipe SDR 17
- Opening of the spanner (SW) is 14
- Long fusion outlet

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	L [mm]	z [mm]	Description	
63	32	**193 281 110**	5	2.600	-	30	76	120	System P	
63	63	**193 280 680**	5	2.600	-	30	100	160	System P	
63	32	**193 281 111**	5	2.405	-	33	76	120	System C	
63	63	**193 280 410**	5	2.405	-	33	100	160	System C	

PF 2 51 313

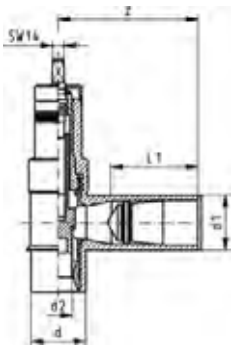


PF 2 51 313

Tapping Valve Tee with Gas-Stop Type U

- **PE 100 SDR 11** (ISO S5)
- 5 bar Gas (for pressure 35 mbar -5 bar)
- With integrated puncher(P) / cutter(C) to tap live mains under pressure
- For ELGEF® Plus Branch Saddle (53 131 000) d63-225, pipe SDR 11
- For ELGEF® Plus Branch Saddle (53 131 000) d75-315, pipe SDR 17
- Gas-Stop System Pipelife Type U (GS 32/35 or GS 63/35)
- **Without overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- Opening of the spanner (SW) is 14
- Long fusion outlet

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	L1 [mm]	z [mm]	Vn max [m³/h]	Description
63	32	**193 281 131**	5	2.700	-	30	76	120	35	System P
63	63	**193 281 060**	5	2.700	-	30	100	160	120	System P
63	32	**193 281 178**	-	2.700	3	33	76	120	35	System C
63	63	**193 281 061**	5	2.700	-	33	100	160	120	System C



PF 2 51 313

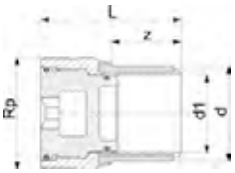
Tapping Valve Tee with Gas-Stop Type U UE

- **PE 100 SDR 11** (ISO S5)
- 5 bar Gas (for pressure 35 mbar -5 bar)
- With integrated puncher(P) / cutter(C) to tap live mains under pressure
- For ELGEF® Plus Branch Saddle (53 131 000) d63-225, pipe SDR 11
- For ELGEF® Plus Branch Saddle (53 131 000) d75-315, pipe SDR 17
- Gas-Stop System Pipelife Type U (GS 32/35 UE or GS 63/35 UE)
- **With overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- Opening of the spanner (SW) is 14
- Long fusion outlet

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	L1 [mm]	z [mm]	Vn max [m³/h]	Description
63	32	**193 281 130**	5	2.700	-	30	76	120	35	System P
63	63	**193 281 058**	5	2.700	-	30	100	160	120	System P
63	32	**193 281 177**	-	2.700	3	33	76	120	35	System C
63	63	**193 281 059**	5	2.700	-	33	100	160	120	System C

Stop-Off Adaptor with brass plug

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Branch Saddle (53 131 000) d63-315, pipe SDR 11
- For main dimension d 63 and d 75mm we recommend a maximum cutting diameter of d = 39mm

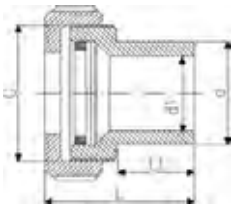


d [mm]	Rp [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]	z [mm]	SW [mm]
63	2 ½	**193 280 274**	6	1.489	-	50	93	46	19
63	2 ½	**193 280 294**	6	1.462	-	56	93	46	19

PF 2 51 313

Stop-Off Adaptor PE

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Branch Saddle (53 131 000) d63-315, pipe SDR 11
- PE Stop-Off insert d 63
- Plug with rubber seal
- PVP nut
- For main dimension d 63 and d 75mm we recommend a maximum cutting diameter of d = 39mm

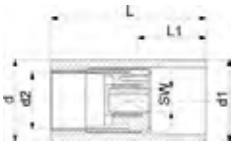


d [mm]	G [inch]	Code	GP	kg	SID	d1 [mm]	L [mm]	z [mm]
63	2 ¾	**193 280 279**	10	0.300	-	51	87	45

PF 2 51 313

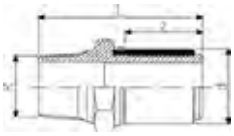
Spigot with Cutter

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Branch Saddle (53 131 000) d63-225, pipe SDR 11
- For ELGEF® Plus Branch Saddle (53 131 000) d75-315, pipe SDR 17



d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	L [mm]	L1 [mm]	SW [mm]
63	32	**193 280 272**	20	0.200	-	19	113	50	13
63	63	**193 280 273**	12	0.701	-	32	120	50	17

PF 2 51 313

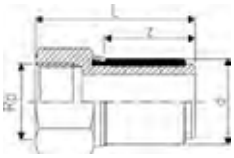


Transition Adaptor PE/brass (Ms 58) Male thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Couplers and Fittings

d [mm]	R [inch]	Code	kg	SID	L [mm]	z [mm]
20	½	**720 920 706**	0.151	-	75	33
25	¾	**720 920 707**	0.201	-	76	33
32	1	**720 920 708**	0.273	-	80	35
32	1 ¼	**720 920 718**	0.389	-	82	35
32	1 ½	**720 920 728**	0.454	-	82	35
40	1	**720 920 719**	0.370	-	84	39
40	1 ¼	**720 920 709**	0.425	-	86	39
40	1 ½	**720 920 729**	0.490	-	86	39
50	1	**720 920 720**	0.479	-	88	43
50	1 ¼	**720 920 730**	0.546	-	90	43
50	1 ½	**720 920 710**	0.528	-	90	43
63	1 ¼	**720 920 721**	0.702	-	94	47
63	1 ½	**720 920 731**	0.698	-	94	47
63	2	**720 920 711**	0.792	-	98	47

PF 2 51 314

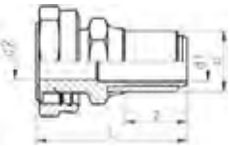


Transition adaptor PE/brass (Ms 58) Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Couplers and Fittings

d [mm]	Rp [inch]	Code	kg	SID	L [mm]	z [mm]
32	1	**720 920 208**	0.250	-	71	35
40	1 ¼	**720 920 209**	0.397	-	77	39
50	1 ½	**720 920 210**	0.589	-	81	43
63	1	**720 920 221**	1.071	-	89	47
63	1 ¼	**720 920 231**	1.027	-	89	47
63	1 ½	**720 920 241**	0.950	-	89	47
63	2	**720 920 211**	0.800	-	89	47

PF 2 51 314

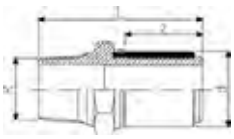


Transition adaptor PE/brass
Loose nut (Ms 58)

- **PE 100 SDR 11** (ISO S5)
- Gas on request / 16 bar Water
- For ELGEF® Plus Couplers and Fittings
- Incl. flat gasket for water applications (KTW / WRC approved)

d [mm]	Rp [inch]	Code	kg	SID	d2 [mm]	L [mm]	z [mm]
25	¾	**720 920 007**	0.165	-	15	68	32
25	1	**720 920 017**	0.240	-	16	70	32
32	1	**720 920 008**	0.255	-	20	72	34
32	1 ¼	**720 920 018**	0.374	-	22	76	34
32	1 ½	**720 920 028**	0.393	1	22	76	34
40	1	**720 920 009**	0.349	-	21	77	38
40	1 ¼	**720 920 019**	0.406	-	25	81	38
40	1 ½	**720 920 029**	0.480	-	28	81	38
50	1	**720 920 020**	0.532	-	20	82	42
50	1 ¼	**720 920 030**	0.577	-	25	87	42
50	1 ½	**720 920 010**	0.621	-	29	87	42
50	2	**720 920 040**	0.831	-	36	91	42
63	1	**720 920 021**	0.816	-	20	87	46
63	1 ¼	**720 920 031**	0.850	-	25	91	46
63	1 ½	**720 920 041**	0.862	-	29	91	46
63	2	**720 920 011**	1.025	-	36	95	46
63	2 ½	**720 920 051**	1.284	-	46	98	46

PF 2 51 314

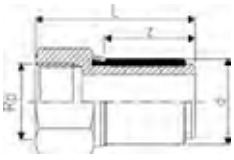


Transition Adaptor PE/steel (stainless 1.4305)
Male thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Couplers and Fittings

d [mm]	R [inch]	Code	kg	SID	L [mm]	z [mm]
20	½	**724 920 706**	0.139	-	75	33
25	¾	**724 920 707**	0.189	-	76	33
32	1	**724 920 708**	0.256	-	80	35
32	1 ½	**724 920 718**	0.400	3	80	35
40	1 ¼	**724 920 709**	0.404	-	86	39
40	1 ½	**724 920 719**	0.572	-	86	39
50	1 ½	**724 920 710**	0.502	-	90	43
63	1 ½	**724 920 721**	0.690	-	98	47
63	2	**724 920 711**	0.756	-	98	47

PF 2 51 314



Transition adaptor PE/steel (stainless 1.4305)
Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Couplers and Fittings

d [mm]	Rp [inch]	Code	kg	SID	L [mm]	z [mm]
20	½	**724 920 206**	0.153	-	65	33
25	¾	**724 920 207**	0.195	-	66	33
32	1	**724 920 208**	0.250	-	71	35
40	1 ¼	**724 920 209**	0.388	-	77	39
50	1 ½	**724 920 210**	0.575	-	81	43
63	2	**724 920 211**	0.785	-	89	47

PF 2 51 314

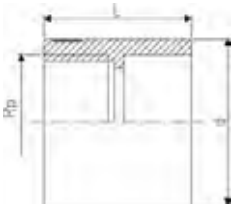
PF 1 27 142

Transition Fittings PE / steel

- **PE 100 SDR 11** (ISO S5)
- Electrofusion weldable
- Steel pipe, to EN 10208-1, PE coated for corrosion resistance
- Further dimensions on request

* Steel pipe without plastic shroud

d [mm]	d1 [inch]	Code	kg	SID	d1 [mm]	Z [mm]	L1 [mm]	L2 [mm]
*20	½	**775 641 502**	0.600	1	21	450	310	85
25	¾	**775 641 507**	0.900	1	27	460	310	100
32	1	**775 641 510**	1.400	-	34	460	310	100
40	1 ¼	**775 641 514**	1.700	1	42	460	310	100
50	1 ½	**775 641 518**	2.500	-	48	460	310	100
63	2	**775 641 524**	3.600	-	60	460	310	100
75	2 ½	**775 641 632**	4.400	-	76	510	310	100
90	3	**775 641 636**	3.975	-	89	520	310	100
110	3	**775 641 640**	9.000	-	89	520	310	100
110	4	**775 641 641**	6.530	-	114	520	310	100
125	4	**775 641 645**	12.300	1	114	520	310	100
160	6	**775 641 655**	11.275	-	168	580	310	120
180	6	**775 641 659**	25.600	1	168	580	310	130
200	8	**775 642 664**	39.600	1	219	600	310	130
225	8	**775 642 669**	43.200	-	219	600	310	130
250	8	**775 642 665**	64.600	1	219	620	310	160
250	10	**775 642 666**	61.400	1	273	620	310	160
280	10	**775 642 673**	73.000	3	273	620	310	160
315	12	**775 642 672**	123.600	1	324	630	310	220
355	12	**775 642 675**	152.400	3	324	630	310	220
400	16	**775 642 678**	266.000	3	406	640	310	220



PF 2 51 313

PE Adaptor
Female thread

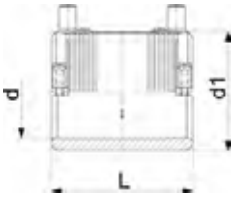
- **PE 80 SDR 11** (ISO S5)
- 5 bar Gas / 12,5 bar Water
- Connection to plastic or metal
- Reinforcing ring stainless (A2)
- For ELGEF® Plus Branch Saddle (53 131 000) d63-315, pipe SDR 11
- Parallel female thread

d [mm]	Rp [inch]	Code	GP	kg	SID	L [mm]
63	1 ½	**173 281 925**	30	0.096	-	54

Excess Flow Valves

53 92 06

Coupler with integrated Excess Flow Valve Type D with overflow orifice



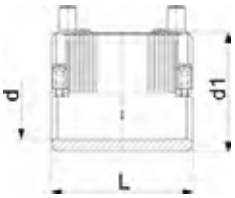
PF 2 51 314

- **PE 100 SDR 11** (ISO S5)
- 1 bar Gas
- Pressure rating **25 mbar - 1 bar.** Excess Flow Valve system Mertik Maxitrol
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	z [mm]
32	**753 920 608**	50	0.101	-	44	72	2
40	**753 920 609**	50	0.160	-	54	80	2
50	**753 920 610**	10	0.279	-	66	88	2
63	**753 920 611**	10	0.382	-	81	96	2

53 92 07

Coupler with integrated Excess Flow Valve Type B with overflow orifice



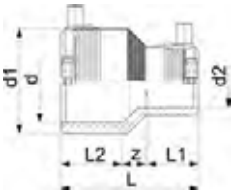
PF 2 51 314

- **PE 100 SDR 11** (ISO S5)
- 5 bar Gas
- Pressure rating **100 mbar - 5 bar**. Excess Flow Valve system Mertik Maxitrol
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	z [mm]
32	**753 920 708**	50	0.103	-	44	72	2
40	**753 920 709**	50	0.163	-	54	80	2
50	**753 920 710**	10	0.286	-	66	88	2
63	**753 920 711**	10	0.394	-	81	96	2

53 90 16

Reducer with integrated Excess Flow Valve Type D with overflow orifice



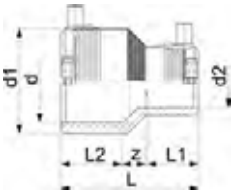
PF 2 51 314

- **PE 100 SDR 11** (ISO S5)
- 1 bar Gas
- Pressure rating **25 mbar - 1 bar.** Excess Flow Valve system Mertik Maxitrol
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	d2 [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]
63	32	**753 901 605**	10	0.213	-	81	106	35	48	23
63	40	**753 901 606**	10	0.249	-	81	106	39	48	19
63	50	**753 901 607**	10	0.381	-	81	106	43	48	15

53 90 16

Reducer with integrated Excess Flow Valve Type B with overflow orifice



PF 2 51 314

- **PE 100 SDR 11** (ISO S5)
- 5 bar Gas
- Pressure rating **100 mbar - 5 bar**. Excess Flow Valve system Mertik Maxitrol
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	d2 [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]
63	32	**753 901 612**	10	0.215	-	81	106	35	48	23
63	40	**753 901 613**	10	0.252	-	81	106	39	48	19
63	50	**753 901 614**	10	0.393	-	81	106	43	48	15

ELGEF Plus Assembly Instructions for Saddles and Tapping Valves

Sequence of work	Tapping saddle Monoblock d 40–d 63	Tapping saddle with rotatable outlet d 63–d 315	Pressure tapping valve d 63–d 315	Spigot saddle d 63–d 315	Stopoff saddle d 63–d 315	Repair saddle d 63–d 315	Strengthening saddle (24 V) d 40–d 250
1 Clean pipe in fusion area, remove oxide film of pipe using scraper (machine it)							
2 Clean pipe in fusion area using duster and PE cleaner							
3 Remove saddle from packaging without touching; hang lower part on its hinge							
4 Place saddle on pipe and tighten with pre-mounted screws (stress clamp for strengthening saddle)		**<= 250**	**<= 250**	**<= 250**	**<= 250**	**<= 250**	
5 Remove modular system component from the packaging and assemble (without touching fusion surface)							
6 Place saddle on pipe and assemble with top-Load tool (detailed assembly instructions)		**>= 250**	**>= 250**	**>= 250**	**>= 250**	**>= 250**	
7 Align rotatable outlet and firmly fasten integrated bracket of saddle outlet							
8 Fusion in accordance with operating instructions of unit							
9 After fusion: Check fusion indicator; check fusion unit display, then remove cable							
10 Wait for minimum time until pressure test, then conduct pressure test *1							
11 Remove screw and fusion cap							
12 Tap clockwise, withdraw cutter up to top stop; (detailed assembly instructions) *1							
13 Fasten screw and fusion cap by hand							
14 Fusion in accordance with operating instructions of unit							

= compulsory **= if required**

***1 Minimum cooling time for saddles in minutes**

d	Pressure test/Tapping p<= 6 bar	p<= 24 bar
(mm)	(min)	(min)
40	10	30
63–315	20	60

p = test pressure

ELGEF® Plus Saddles and Valves

53 131 000

Electrofusion Saddle

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Dimension d 355 - 400 mm in preparation

* = not suitable for all tapping-tee, tapping-valve and spigot with cutter of the modular systems

** = not suitable for all tapping-tee, tapping-valve and spigot with cutter of the modular systems / delivery without lower part for assembling as Top load with tool 799.350.475

d [mm]	d1 [mm]	Code	GP	kg	SID	L [mm]
63	63	**193 131 037**	5	0.335	-	165
75	63	**193 131 047**	5	0.465	-	165
90	63	**193 131 057**	5	0.425	-	165
110	63	**193 131 067**	3	0.493	-	165
125	63	**193 131 077**	3	0.523	-	165
140	63	**193 131 087**	3	0.523	-	165
160	63	**193 131 097**	4	0.526	-	165
180	63	**193 131 107**	5	0.632	-	165
200	63	**193 131 117**	5	0.651	-	165
225	63	**193 131 127**	4	0.653	-	165
*250	63	**193 131 137**	3	0.665	-	165
**280	63	**193 131 147**	8	0.370	-	165
**315	63	**193 131 157**	8	0.370	-	165

PF 2 51 313

53 130 000

Repair Saddle

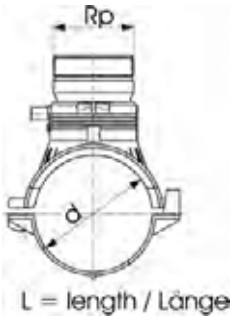
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including Spigot Cap (753.961.011)
- * = delivery without lower part for assembling as Top Load with tool no. 799.350.475

d [mm]	d1 [mm]	Code	GP	kg	SID	L [mm]
63	63	**193 130 037**	5	0.433	-	165
75	63	**193 130 047**	3	0.574	-	165
90	63	**193 130 057**	5	0.538	-	165
110	63	**193 130 067**	3	0.592	-	165
125	63	**193 130 077**	3	0.622	-	165
140	63	**193 130 087**	3	0.660	-	165
160	63	**193 130 097**	3	0.627	-	165
180	63	**193 130 107**	5	0.733	-	165
200	63	**193 130 117**	5	0.751	-	165
225	63	**193 130 127**	5	0.768	-	165
250	63	**193 130 137**	3	0.758	-	165
*280	63	**193 130 147**	6	0.450	-	165
*315	63	**193 130 157**	6	0.450	-	165

PF 2 51 313

53 149 000

Stop-Off Saddle (Kit) maximum passage 56 mm



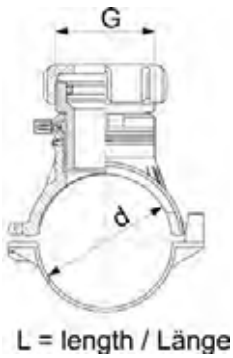
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- Stop-Off insert (brass 58) and plug
- 4 mm pin connectors
- Limited path fusion indicators
- Stop-Off insert with outside thread Rp 2 1/2" and internal thread Rp 2" suited for common tapping devices permitting "gastight" installation
- * = delivery without lower part for assembling as Top Load with tool no. 799.350.475
- For main dimension d 63 and d 75mm we recommend a maximum cutting diameter of d = 39mm

d [mm]	Rp [inch]	Code	GP	kg	SID	L [mm]
63	2 ½	**193 149 437**	3	1.744	-	165
75	2 ½	**193 149 447**	3	1.900	-	165
90	2 ½	**193 149 457**	3	1.865	-	165
110	2 ½	**193 149 467**	3	1.916	-	165
125	2 ½	**193 149 477**	3	1.945	-	165
140	2 ½	**193 149 487**	3	1.945	-	165
160	2 ½	**193 149 497**	5	1.954	-	165
180	2 ½	**193 149 507**	5	2.055	-	165
200	2 ½	**193 149 517**	5	2.074	-	165
225	2 ½	**193 149 527**	5	2.062	-	165
250	2 ½	**193 149 537**	5	2.080	-	165
*280	2 ½	**193 149 547**	5	1.550	-	165
*315	2 ½	**193 149 557**	5	1.550	-	165

PF 2 51 313

53 149 200

Stop-off Saddle with PE-Adaptor maximum passage 50 mm



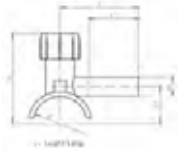
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- Supplied as Kit with PE-Stop-Off Adaptor
- PE Stop-Off insert (for use with by-pass unit 799150376)
- 4 mm pin connectors
- Limited path fusion indicators
- * = delivery without lower part for assembling as Top Load with tool no. 799.350.475

d [mm]	G [inch]	Code	GP	kg	SID	L [mm]
63	2 ½	**193 149 237**	5	0.630	-	165
75	2 ½	**193 149 247**	5	0.765	-	165
90	2 ½	**193 149 257**	5	0.734	-	165
110	2 ½	**193 149 267**	5	0.782	-	165
125	2 ½	**193 149 277**	5	0.820	-	165
140	2 ½	**193 149 287**	3	0.820	-	165
160	2 ½	**193 149 297**	5	0.816	-	165
180	2 ½	**193 149 307**	5	0.920	-	165
200	2 ½	**193 149 317**	5	0.944	-	165
225	2 ½	**193 149 327**	5	0.943	-	165
250	2 ½	**193 149 337**	5	0.950	-	165
*280	2 ½	**193 149 347**	6	0.920	-	165
*315	2 ½	**193 149 357**	5	0.920	-	165

PF 2 51 313

53 131 400

Tapping Saddle Monobloc toplod



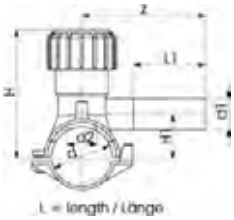
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Delivery without lower part for assembling as Toplod with tool no. 799 301 558
- 4 mm pin connectors
- Fusion indicator
- Long fusion outlet
- O-ring sealed screw-cap

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
32	20	**193 281 459**	10	0.142	1	12	83	29	101	65	90

PF 2 51 313

53 131 400

Tapping Saddle Monobloc version



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring sealed screw-cap

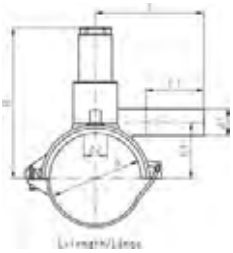
d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
40	20	**193 131 412**	6	0.270	-	16	99	33	103	70	102
40	25	**193 131 413**	6	0.272	-	16	99	33	103	70	102
40	32	**193 131 414**	6	0.277	-	16	99	33	103	70	120
50	20	**193 131 422**	5	0.260	-	16	104	38	103	70	102
50	25	**193 131 423**	5	0.262	-	16	104	38	103	70	102
50	32	**193 131 424**	5	0.270	-	16	104	38	103	70	120
63	20	**193 131 432**	6	0.428	-	25	134	44	126	70	115
63	25	**193 131 433**	6	0.431	-	25	134	44	126	70	115
63	32	**193 131 434**	6	0.433	-	25	134	44	126	70	130

PF 2 51 313

53 131 400

Tapping Saddle
Monobloc version

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring sealed screw-plug



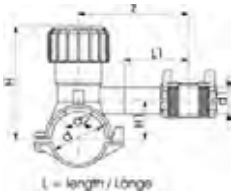
d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
110	20	**193 281 166**	5	0.884	3	25	180	67	220	80	120
110	25	**193 281 167**	5	0.884	1	25	180	67	220	80	125
110	32	**193 281 168**	5	0.884	-	25	180	67	220	80	130

PF 2 51 313

53 132 400

Tapping Saddle (Kit)
Monobloc version

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring sealed screw-cap
- Supplied as Kit with enclosed service line fitting (ELGEF® Plus Coupler or Reducer)

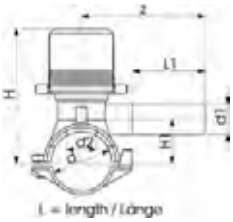


d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
40	20	**193 132 412**	6	0.324	-	16	99	33	103	70	102
40	25	**193 132 413**	6	0.331	-	16	99	33	103	70	102
40	32	**193 132 414**	5	0.353	-	16	99	33	103	70	120
50	20	**193 132 422**	5	0.325	-	16	105	38	103	70	102
50	25	**193 132 423**	5	0.323	-	16	105	38	103	70	102
50	32	**193 132 424**	5	0.342	-	16	105	38	103	70	120
63	20	**193 132 432**	6	0.486	-	25	134	44	126	70	115
63	25	**193 132 433**	6	0.492	-	25	134	44	126	70	115
63	32	**193 132 434**	6	0.507	-	25	134	44	126	70	130
63	40	**193 132 435**	6	0.534	-	25	134	44	126	70	130

PF 2 51 313

53 131 600

Tapping Saddle with Electrofusion Cap Monobloc version



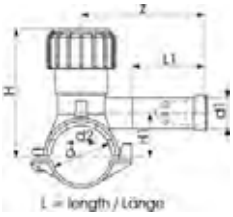
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- Electrofusion Cap

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
63	20	**193 131 632**	6	0.479	-	25	134	44	126	71	130
63	25	**193 131 633**	6	0.483	-	25	134	44	126	71	130
63	32	**193 131 634**	4	0.483	-	25	134	44	126	76	130

PF 2 51 313

53 130 600

Tapping Saddle with Gas-Stop Type 1-5 bar Monobloc version



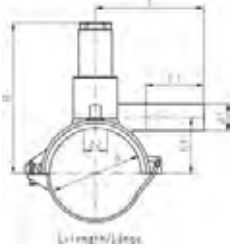
- **PE 100 SDR 11** (ISO S5)
- 5 bar Gas (for pressure 1 bar -5 bar)
- With integrated cutter to tap live mains under pressure
- Gas-Stop System Pipelife (GS 20/1 or GS 32/1)
- **Without overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring sealed screw-cap

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	Vn max [m³/h]
40	20	**193 281 113**	6	0.270	1	16	99	33	103	70	102	25
40	32	**193 281 152**	6	0.277	1	16	99	33	103	70	120	100
63	20	**193 281 434**	6	0.840	1	25	134	44	126	70	115	25
63	32	**193 281 153**	6	0.840	1	25	134	44	126	70	130	100

PF 2 51 313

53 130 600

Tapping Saddle with Gas-Stop Type 1-5 bar Monobloc version



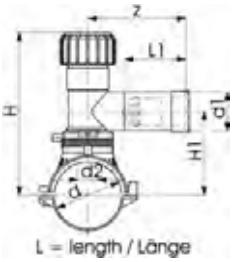
- **PE 100 SDR 11** (ISO S5)
- 5 bar Gas (for pressure 1 bar -5 bar)
- With integrated cutter to tap live mains under pressure
- Gas-Stop System Pipelife (GS 20/1 or GS 32/1)
- **Without overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring sealed screw-plug

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	Vn max [m³/h]	
110	20	**193 281 169**	5	0.884	3	25	180	67	220	80	120	25	
110	32	**193 281 170**	5	0.884	3	25	180	67	220	80	130	100	

PF 2 51 313

53 130 600

Tapping Saddle with Gas-Stop Type 1-5 bar with 360° rotatable outlet



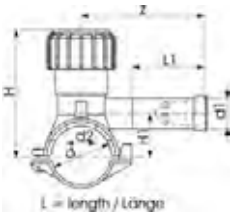
- **PE 100 SDR 11** (ISO S5)
- 5 bar Gas (for pressure 1 bar -5 bar)
- With integrated cutter to tap live mains under pressure
- Gas-Stop System Pipelife (GS 20/1, GS 32/1, GS 63/1)
- **Without overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring sealed screw-cap

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	Vn max [m³/h]	
63	63	**193 281 159**	5	1.556	3	32	134	112	165	100	160	280	
90	20	**193 281 435**	3	0.728	1	25	199	121	165	71	130	25	
90	32	**193 281 154**	3	0.728	3	25	199	121	165	76	130	100	
90	63	**193 281 160**	5	1.642	2	32	248	126	165	100	160	280	
110	20	**193 281 437**	3	0.873	3	25	209	131	165	71	130	25	
110	32	**193 281 155**	3	0.873	3	25	209	131	165	76	130	100	
110	63	**193 281 161**	3	1.691	3	35	258	136	165	100	160	280	
125	20	**193 281 438**	3	0.902	3	25	216	138	165	71	130	25	
125	32	**193 281 156**	3	0.902	3	25	216	138	165	76	130	100	
125	63	**193 281 162**	3	1.724	3	35	265	143	165	100	160	280	
160	20	**193 281 439**	3	0.909	3	25	243	156	165	71	130	25	
160	32	**193 281 157**	3	0.909	3	25	243	156	165	76	130	100	
160	63	**193 281 163**	3	1.737	3	35	283	161	165	100	160	280	
225	20	**193 281 122**	3	1.011	3	25	266	188	165	71	130	25	
225	32	**193 281 158**	3	1.011	3	25	266	188	165	76	130	100	
225	63	**193 281 164**	3	1.864	3	35	315	193	165	100	160	280	

PF 2 51 313

53 130 600

Tapping Saddle with Gas-Stop Type AD UE Monobloc version



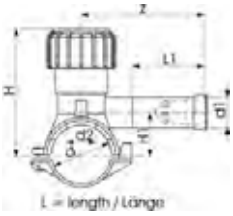
- **PE 100 SDR 11** (ISO S5)
- 1 bar Gas (for pressure **25 mbar - 1 bar**)
- With integrated cutter to tap live mains under pressure
- Gas-Stop System Pipelife Type AD (GS 32/25 UE)
- **With overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring sealed screw-cap

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	Vn max [m³/h]	
40	32	**193 130 614**	6	0.290	-	16	99	33	103	76	120	10	
50	32	**193 130 624**	6	0.283	-	16	104	38	103	76	120	10	
63	32	**193 130 634**	6	0.446	-	25	134	44	126	76	130	10	

PF 2 51 313

53 130 800

Tapping Saddle with Gas-Stop Type B UE Monobloc Version



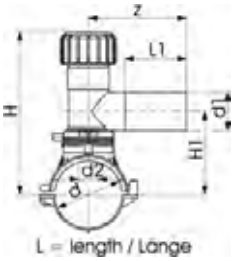
- **PE 100 SDR 11** (ISO S5)
- 5 bar Gas (for pressure **150 mbar - 5 bar**)
- With integrated cutter to tap live mains under pressure
- Gas-Stop System Pipelife Type B (GS 32/150 UE)
- **With overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring sealed screw-cap

d [mm]	d1 [mm]	Code	GP	kg	SID	D2 [mm]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	Vn max [m³/h]
40	32	**193 130 814**	6	0.290	-	16	16	99	33	103	76	120	45
50	32	**193 130 824**	5	0.283	-	16	16	104	38	103	76	120	45
63	32	**193 130 834**	6	0.446	-	25	25	134	44	126	76	130	45

PF 2 51 313

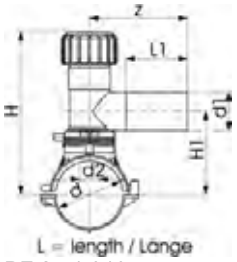
53 131 400

Tapping Saddle
with 360° rotatable outlet



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring sealed screw-cap
- * = delivery without lower part for assembling as Top Load with tool no. 799.350.475

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	
63	20	**193 131 402**	3	0.695	-	32	186	108	165	71	130	
63	25	**193 131 403**	3	0.713	-	32	186	108	165	71	130	
63	32	**193 131 404**	3	0.715	-	32	186	108	165	76	130	
63	40	**193 131 405**	3	0.731	-	32	186	108	165	81	137	
63	63	**193 131 437**	5	1.455	-	32	134	112	165	100	160	
75	20	**193 131 442**	3	0.825	-	32	191	113	165	71	130	
75	25	**193 131 443**	3	0.839	-	32	191	113	165	71	130	
75	32	**193 131 444**	3	0.841	-	32	191	113	165	76	130	
75	40	**193 131 445**	3	0.858	-	32	191	113	165	81	137	
75	63	**193 131 447**	5	1.579	-	32	240	118	165	100	160	
90	20	**193 131 452**	3	0.791	-	32	199	121	165	71	130	
90	25	**193 131 453**	3	0.802	-	32	199	121	165	71	130	
90	32	**193 131 454**	3	0.801	-	32	199	121	165	76	130	
90	40	**193 131 455**	3	0.819	-	32	199	121	165	81	137	
90	63	**193 131 457**	5	1.541	-	32	248	126	165	100	160	
110	20	**193 131 462**	3	0.853	-	32	209	131	165	71	130	
110	25	**193 131 463**	3	0.860	-	32	209	131	165	71	130	
110	32	**193 131 464**	3	0.860	-	32	209	131	165	76	130	
110	40	**193 131 465**	3	0.877	-	32	209	131	165	81	137	
110	63	**193 131 467**	3	1.590	-	35	258	136	165	100	160	
125	20	**193 131 472**	3	0.879	-	32	216	138	165	71	130	
125	25	**193 131 473**	4	0.883	-	32	216	138	165	71	130	
125	32	**193 131 474**	3	0.889	-	32	216	138	165	76	130	
125	40	**193 131 475**	3	0.906	-	32	216	138	165	81	137	
125	63	**193 131 477**	3	1.623	-	35	265	143	165	100	160	
140	20	**193 131 482**	3	0.887	-	32	233	146	165	71	130	
140	25	**193 131 483**	3	0.884	-	32	233	146	165	71	130	
140	32	**193 131 484**	3	0.900	-	32	233	146	165	76	130	
140	40	**193 131 485**	3	0.920	-	32	233	146	165	81	137	
140	63	**193 131 487**	3	1.639	-	35	273	151	165	100	160	
160	20	**193 131 492**	3	0.886	-	32	243	156	165	71	130	
160	25	**193 131 493**	3	0.896	-	32	243	156	165	71	130	
160	32	**193 131 494**	3	0.896	-	32	243	156	165	76	130	
160	40	**193 131 495**	3	0.920	-	32	243	156	165	81	137	
160	63	**193 131 497**	3	1.636	-	35	283	161	165	100	160	
180	20	**193 131 502**	3	1.002	-	32	244	166	165	71	130	
180	25	**193 131 503**	3	1.002	-	32	244	166	165	71	130	
180	32	**193 131 504**	5	1.002	-	32	244	166	165	76	130	
180	40	**193 131 505**	3	1.022	-	32	244	166	165	81	137	
180	63	**193 131 507**	3	1.742	-	35	293	171	165	100	160	
200	20	**193 131 512**	3	1.011	-	32	254	176	165	71	137	
200	25	**193 131 513**	5	1.011	-	32	254	176	165	71	130	
200	32	**193 131 514**	3	1.021	-	32	254	176	165	76	130	
200	40	**193 131 515**	3	1.041	-	32	254	176	165	81	137	
200	63	**193 131 517**	3	1.761	-	35	303	181	165	100	160	
225	20	**193 131 522**	3	1.014	-	32	266	188	165	71	130	
225	25	**193 131 523**	3	1.014	-	32	266	188	165	71	130	
225	32	**193 131 524**	3	1.014	-	32	266	188	165	76	130	
225	40	**193 131 525**	5	1.043	-	32	266	188	165	81	137	
225	63	**193 131 527**	3	1.763	-	35	315	193	165	100	160	

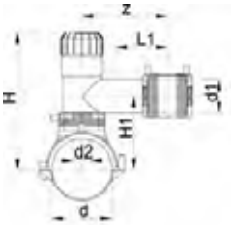


PF 2 51 313

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	
250	20	**193 131 532**	3	1.025	-	32	279	201	165	76	130	
250	25	**193 131 533**	3	1.035	-	32	279	201	165	76	130	
250	32	**193 131 534**	3	1.035	-	32	279	201	165	76	130	
250	40	**193 131 535**	3	1.055	-	32	279	201	165	81	137	
250	63	**193 131 537**	3	1.775	-	35	328	206	165	100	160	
*280	63	**193 131 547**	5	1.240	-	35	328	206	165	100	160	
*315	63	**193 131 557**	5	1.513	-	35	328	206	165	100	160	

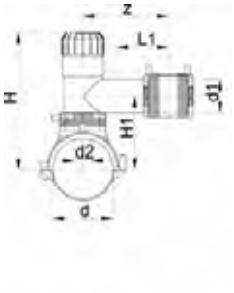
53 132 400

Tapping Saddle (Kit) with 360° rotatable outlet



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring sealed screw-cap
- Supplied as Kit with enclosed service line fitting (ELGEF® Plus Coupler or Reducer)
- * = delivery without lower part for assembling as Top Load with tool no. 799.350.475

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
63	20	**193 132 402**	3	0.749	-	32	186	108	165	76	130
63	25	**193 132 403**	3	0.773	-	32	186	108	165	76	130
63	32	**193 132 404**	3	0.787	-	32	186	108	165	76	130
63	40	**193 132 405**	3	0.831	-	32	186	108	165	76	130
63	50	**193 132 436**	5	1.651	-	32	234	112	165	100	160
63	63	**193 132 437**	5	1.649	-	32	234	112	165	100	160
75	20	**193 132 442**	3	0.879	-	32	191	113	165	76	130
75	25	**193 132 443**	3	0.900	-	32	191	113	165	76	130
75	32	**193 132 444**	3	0.913	-	32	191	113	165	76	130
75	40	**193 132 445**	3	0.958	-	32	240	118	165	76	160
75	50	**193 132 446**	5	1.775	-	32	240	118	165	100	160
75	63	**193 132 447**	5	1.773	-	32	240	118	165	100	160
90	20	**193 132 452**	3	0.845	-	32	199	121	165	76	130
90	25	**193 132 453**	3	0.862	-	32	199	121	165	76	130
90	32	**193 132 454**	3	0.875	-	32	199	121	165	76	130
90	40	**193 132 455**	3	0.919	-	32	199	126	165	76	130
90	50	**193 132 456**	5	1.737	-	32	248	126	165	100	160
90	63	**193 132 457**	5	1.735	-	32	248	126	165	100	160
110	20	**193 132 462**	3	0.907	-	32	209	131	165	76	130
110	25	**193 132 463**	3	0.920	-	32	209	131	165	76	130
110	32	**193 132 464**	3	0.932	-	32	209	131	165	76	130
110	40	**193 132 465**	3	0.977	-	32	209	136	165	76	130
110	50	**193 132 466**	3	1.786	-	35	258	136	165	100	160
110	63	**193 132 467**	3	1.784	-	35	258	136	165	100	160
125	20	**193 132 472**	3	0.933	-	32	216	138	165	76	130
125	25	**193 132 473**	3	0.943	-	32	216	138	165	76	130
125	32	**193 132 474**	3	0.961	-	32	216	138	165	76	130
125	40	**193 132 475**	3	1.006	-	32	216	143	165	76	130
125	50	**193 132 476**	3	1.819	-	35	256	143	165	100	160
125	63	**193 132 477**	3	1.817	-	35	256	143	165	100	160
140	20	**193 132 482**	3	0.941	-	32	234	146	165	76	130
140	25	**193 132 483**	3	0.944	-	32	234	146	165	76	130
140	32	**193 132 484**	3	0.972	-	32	234	146	165	76	130
140	40	**193 132 485**	3	1.020	-	32	234	146	165	76	130
140	50	**193 132 486**	3	1.835	-	35	283	151	165	100	160
140	63	**193 132 487**	3	1.833	-	35	283	151	165	100	160
160	20	**193 132 492**	3	0.940	-	32	234	156	165	76	130
160	25	**193 132 493**	3	0.956	-	32	234	156	165	76	130
160	32	**193 132 494**	3	0.968	-	32	234	156	165	76	130
160	40	**193 132 495**	3	1.016	-	32	234	161	165	76	130
160	50	**193 132 496**	3	1.832	-	35	283	161	165	100	160
160	63	**193 132 497**	3	1.830	-	35	283	161	165	100	160
180	20	**193 132 502**	3	1.020	-	32	244	166	165	71	130
180	25	**193 132 503**	3	1.210	-	32	244	166	165	71	130
180	32	**193 132 504**	3	1.074	-	32	244	166	165	76	130
180	40	**193 132 505**	3	1.122	-	32	244	171	165	76	130
180	50	**193 132 506**	3	1.938	-	35	293	171	165	100	160
180	63	**193 132 507**	3	1.936	-	35	293	171	165	100	160
200	20	**193 132 512**	3	1.065	-	32	254	176	165	76	130

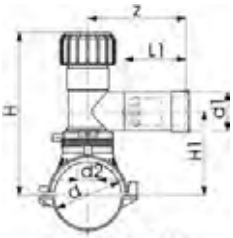


d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
200	25	**193 132 513**	3	1.065	-	32	254	176	165	71	130
200	32	**193 132 514**	3	1.093	-	32	254	176	165	76	130
200	40	**193 132 515**	3	1.141	-	32	254	181	165	76	130
200	50	**193 132 516**	3	1.957	-	35	303	181	165	100	160
200	63	**193 132 517**	3	1.955	-	35	303	181	165	100	160
225	20	**193 132 522**	3	1.460	-	32	266	188	165	71	130
225	25	**193 132 523**	3	1.460	-	32	266	188	165	71	130
225	32	**193 132 524**	3	1.086	-	32	266	188	165	76	130
225	40	**193 132 525**	3	1.143	-	32	266	193	165	76	130
225	50	**193 132 526**	3	1.959	-	35	315	193	165	100	160
225	63	**193 132 527**	3	1.957	-	35	315	193	165	100	160
250	20	**193 132 532**	5	1.079	-	32	279	201	165	76	130
250	25	**193 132 533**	5	1.095	-	32	279	201	165	76	130
250	32	**193 132 534**	3	1.107	-	32	279	201	165	76	130
250	40	**193 132 535**	3	1.155	-	32	279	206	165	76	160
250	50	**193 132 536**	3	1.971	-	35	328	206	165	100	160
250	63	**193 132 537**	3	1.969	-	35	328	206	165	100	160
*280	32	**193 132 544**	3	1.460	-	35	328	206	165	100	160
*280	40	**193 132 545**	3	1.500	-	35	328	206	165	100	160
*280	50	**193 132 546**	3	1.500	-	35	328	206	165	100	160
*280	63	**193 132 547**	3	1.510	-	35	328	206	165	100	160
*315	32	**193 132 554**	5	1.015	-	35	328	206	165	100	160
*315	40	**193 132 555**	5	1.015	-	35	328	206	165	100	160
*315	50	**193 132 556**	5	1.440	-	35	328	206	165	100	160
*315	63	**193 132 557**	5	1.450	-	35	328	206	165	100	160

PF 2 51 313

53 130 600

Tapping Saddle with Gas-Stop Type AD UE with 360° rotatable outlet



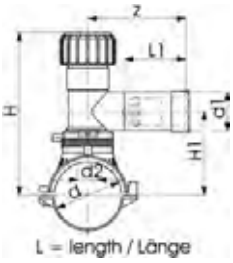
- **PE 100 SDR 11** (ISO S5)
- 1 bar Gas (for pressure **25 mbar - 1 bar**)
- With integrated cutter to tap live mains under pressure
- Gas-Stop System Pipelife Type AD (GS 32/25 UE or GS 63/25 UE)
- **With overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring sealed screw-cap

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	Vn max [m³/h]
63	32	**193 130 604**	3	0.728	-	32	186	108	165	76	130	10
63	63	**193 130 637**	5	1.556	-	32	134	112	165	100	160	40
75	32	**193 130 644**	3	0.854	-	32	191	113	165	76	130	10
75	63	**193 130 647**	5	1.680	-	32	240	118	165	100	160	40
90	32	**193 130 654**	3	0.814	-	32	199	121	165	76	130	10
90	63	**193 130 657**	5	1.642	-	32	248	126	165	100	160	40
110	32	**193 130 664**	3	0.873	-	32	209	131	165	76	130	10
110	63	**193 130 667**	3	1.691	-	35	258	136	165	100	160	40
125	32	**193 130 674**	3	0.902	-	32	216	138	165	76	130	10
125	63	**193 130 677**	3	1.724	-	35	265	143	165	100	160	40
140	32	**193 130 684**	3	0.913	-	32	233	146	165	76	130	10
140	63	**193 130 687**	3	1.740	-	35	273	151	165	100	160	40
160	32	**193 130 694**	3	0.909	-	32	243	156	165	76	130	10
160	63	**193 130 697**	3	1.737	-	35	283	161	165	100	160	40
180	32	**193 130 704**	3	1.015	-	32	244	166	165	76	130	10
180	63	**193 130 707**	3	1.843	-	35	293	171	165	100	160	40
200	32	**193 130 714**	3	1.034	-	32	254	176	165	76	130	10
200	63	**193 130 717**	3	1.862	-	35	303	181	165	100	160	40
225	32	**193 130 724**	3	1.027	-	32	266	188	165	76	130	10
225	63	**193 130 727**	3	1.864	-	35	315	193	165	100	160	40
250	32	**193 130 734**	3	1.048	-	32	279	201	165	76	130	10
250	63	**193 130 737**	3	1.876	-	35	328	206	165	100	160	40

PF 2 51 313

53 130 800

Tapping Saddle with Gas-Stop Type B UE with 360° rotatable outlet



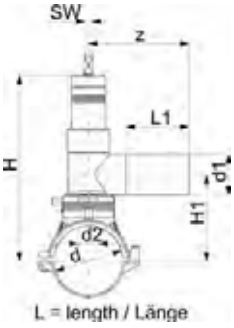
- **PE 100 SDR 11** (ISO S5)
- 5 bar Gas (for pressure **150 mbar - 5 bar**)
- With integrated cutter to tap live mains under pressure
- Gas-Stop System Pipelife Type B (GS 32/150 UE or GS 63/150 UE)
- **With overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring sealed screw-cap

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	Vn max [m³/h]
63	32	**193 130 804**	3	0.728	-	32	186	108	165	76	130	45
63	63	**193 130 837**	5	1.556	-	32	134	112	165	100	160	180
75	32	**193 130 844**	5	0.854	-	32	191	113	165	76	130	45
75	63	**193 130 847**	5	1.680	-	32	240	118	165	100	160	180
90	32	**193 130 854**	3	0.814	-	32	199	121	165	76	130	45
90	63	**193 130 857**	5	1.642	-	32	248	126	165	100	160	180
110	32	**193 130 864**	3	0.873	-	32	209	131	165	76	130	45
110	63	**193 130 867**	3	1.691	-	35	258	136	165	100	160	180
125	32	**193 130 874**	3	0.902	-	32	216	138	165	76	130	45
125	63	**193 130 877**	3	1.724	-	35	265	143	165	100	160	180
140	32	**193 130 884**	3	0.913	-	32	233	146	165	76	130	45
140	63	**193 130 887**	3	1.740	-	35	273	151	165	100	160	180
160	32	**193 130 894**	3	0.909	-	32	243	156	165	76	130	45
160	63	**193 130 897**	3	1.737	-	35	283	161	165	100	160	180
180	32	**193 130 904**	3	1.015	-	32	244	166	165	76	130	45
180	63	**193 130 907**	3	1.843	-	35	293	171	165	100	160	180
200	32	**193 130 914**	3	1.034	-	32	254	176	165	76	130	45
200	63	**193 130 917**	3	1.862	-	35	303	181	165	100	160	180
225	32	**193 130 924**	3	1.027	-	32	266	188	165	76	130	45
225	63	**193 130 927**	3	1.864	-	35	315	193	165	100	160	180
250	32	**193 130 934**	3	1.048	-	32	279	201	165	76	130	45
250	63	**193 130 937**	3	1.876	-	35	328	206	165	100	160	180

PF 2 51 313

53 152 200

Pressure Tapping Valve System P - Punching drill with 360° rotatable outlet



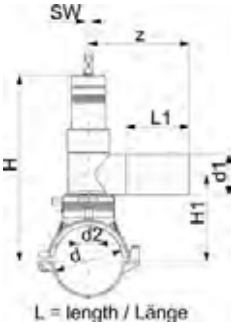
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated puncher to tap live mains under pressure
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Number of turns to fully open or close valve is 28
- Opening of the spanner (SW) is 14
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
63	32	**193 152 234**	5	2.935	-	30	272	112	165	76	120
63	63	**193 152 237**	5	2.935	-	30	272	112	165	100	160
75	32	**193 152 244**	5	3.065	-	30	278	118	165	76	120
75	63	**193 152 247**	5	3.065	-	30	278	118	165	100	160
90	32	**193 152 254**	5	3.025	-	30	286	126	165	76	120
90	63	**193 152 257**	5	3.025	-	30	286	126	165	100	160
110	32	**193 152 264**	3	3.093	-	30	296	136	165	76	120
110	63	**193 152 267**	3	3.093	-	30	296	136	165	100	160
125	32	**193 152 274**	3	3.123	-	30	303	143	165	76	120
125	63	**193 152 277**	3	3.123	-	30	303	143	165	100	160
140	32	**193 152 284**	3	3.123	-	30	311	151	165	76	120
140	63	**193 152 287**	3	3.123	-	30	311	151	165	100	160
160	32	**193 152 294**	3	3.126	-	30	321	161	165	76	120
160	63	**193 152 297**	3	3.126	-	30	321	161	165	100	160
180	32	**193 152 304**	3	3.232	-	30	331	171	165	76	120
180	63	**193 152 307**	3	3.232	-	30	331	171	165	100	160
200	32	**193 152 314**	3	3.251	-	30	341	181	165	76	120
200	63	**193 152 317**	3	3.251	-	30	341	181	165	100	160
225	32	**193 152 324**	3	3.253	-	30	353	193	165	76	120
225	63	**193 152 327**	3	3.253	-	30	353	193	165	100	160

PF 2 51 313

53 152 300

Pressure Tapping Valve System P - Punching drill with 360° rotatable outlet



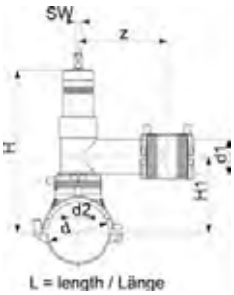
- **PE 100 SDR 17** (ISO S8)
- 10 bar Gas / 16 bar Water
- With integrated puncher to tap live mains under pressure
- **Not suitable for pipes with thickness of wall bigger than SDR 17**
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Number of turns to fully open or close valve is 28
- Opening of the spanner (SW) is 14
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- * = delivery without lower part for assembling as Top Load with tool no. 799.350.475

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
*250	32	**193 152 334**	3	3.000	-	30	366	206	165	76	120
*250	63	**193 152 337**	3	3.000	-	30	366	206	165	100	160
*280	32	**193 152 344**	3	3.000	-	30	366	206	165	76	120
*280	63	**193 152 347**	3	3.000	-	30	366	206	165	100	160
*315	32	**193 152 354**	3	3.000	-	30	366	206	165	76	120
*315	63	**193 152 357**	3	3.000	-	30	366	206	165	100	160

PF 2 51 313

53 152 000

Pressure Tapping Valve (Kit) System P - Punching drill with 360° rotatable outlet



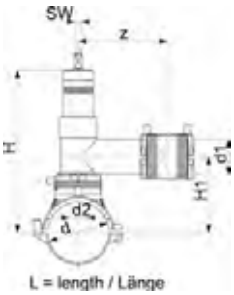
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated puncher to tap live mains under pressure
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Number of turns to fully open or close valve is 28
- Opening of the spanner (SW) is 14
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- Supplied as Kit with enclosed service line fitting (ELGEF® Plus Coupler or Reducer)

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	z [mm]
63	32	**193 152 034**	5	3.113	-	30	272	112	165	160
63	40	**193 152 035**	5	3.119	-	30	272	112	165	160
63	50	**193 152 036**	5	3.131	-	30	272	112	165	160
63	63	**193 152 037**	5	3.129	-	30	272	112	165	160
75	32	**193 152 044**	5	3.243	-	30	278	118	165	160
75	40	**193 152 045**	5	3.249	-	30	278	118	165	160
75	50	**193 152 046**	5	3.261	-	30	278	118	165	160
75	63	**193 152 047**	5	3.259	-	30	278	118	165	160
90	32	**193 152 054**	5	3.203	-	30	286	126	165	160
90	40	**193 152 055**	5	3.209	-	30	286	126	165	160
90	50	**193 152 056**	5	3.215	-	30	286	126	165	160
90	63	**193 152 057**	5	3.213	-	30	286	126	165	160
110	32	**193 152 064**	3	3.241	-	30	296	136	165	160
110	40	**193 152 065**	3	3.247	-	30	296	136	165	160
110	50	**193 152 066**	3	3.253	-	30	296	136	165	160
110	63	**193 152 067**	3	3.251	-	30	296	136	165	160
125	32	**193 152 074**	3	3.271	-	30	303	143	165	160
125	40	**193 152 075**	3	3.307	-	30	303	143	165	160
125	50	**193 152 076**	3	3.319	-	30	303	143	165	160
125	63	**193 152 077**	3	3.317	-	30	303	143	165	160
140	32	**193 152 084**	3	3.301	-	30	311	151	165	160
140	40	**193 152 085**	3	3.307	-	30	311	151	165	160
140	50	**193 152 086**	3	3.315	-	30	311	151	165	160
140	63	**193 152 087**	3	3.313	-	30	311	151	165	160
160	32	**193 152 094**	3	3.304	-	30	321	161	165	160
160	40	**193 152 095**	3	3.310	-	30	321	161	165	160
160	50	**193 152 096**	3	3.318	-	30	321	161	165	160
160	63	**193 152 097**	3	3.308	-	30	321	161	165	160
180	32	**193 152 104**	3	3.410	-	30	331	171	165	160
180	40	**193 152 105**	3	3.416	-	30	331	171	165	160
180	50	**193 152 106**	3	3.424	-	30	331	171	165	160
180	63	**193 152 107**	3	3.426	-	30	331	171	165	160
200	32	**193 152 114**	3	3.431	-	30	341	181	165	160
200	40	**193 152 115**	3	3.435	-	30	341	181	165	160
200	50	**193 152 116**	3	3.453	-	30	341	181	165	160
200	63	**193 152 117**	3	3.451	-	30	341	181	165	160
225	32	**193 152 124**	3	3.431	-	30	353	193	165	160
225	40	**193 152 125**	3	3.437	-	30	353	193	165	160
225	50	**193 152 126**	3	3.445	-	30	353	193	165	160
225	63	**193 152 127**	3	3.443	-	30	353	193	165	160

PF 2 51 313

53 152 100

Pressure Tapping Valve (Kit) System P - Punching drill with 360° rotatable outlet



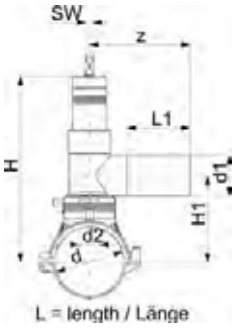
- **PE 100 SDR 17** (ISO S8)
- 10 bar Gas / 16 bar Water
- With integrated puncher to tap live mains under pressure
- **Not suitable for pipes with thickness of wall bigger than SDR 17**
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Number of turns to fully open or close valve is 28
- Opening of the spanner (SW) is 14
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- Supplied as Kit with enclosed service line fitting (ELGEF® Plus Coupler or Reducer)
- * = delivery without lower part for assembling as Top Load with tool no. 799.350.475

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	z [mm]	
250	32	**193 152 134**	3	3.443	-	30	366	206	165	160	
250	40	**193 152 135**	3	3.449	-	30	366	206	165	160	
250	50	**193 152 136**	3	3.457	-	30	366	206	165	160	
250	63	**193 152 137**	3	3.455	-	30	366	206	165	160	
*280	32	**193 152 144**	3	3.118	-	30	366	206	165	160	
*280	40	**193 152 145**	5	3.124	-	30	366	206	165	160	
*280	50	**193 152 146**	3	3.136	-	30	366	206	165	160	
*280	63	**193 152 147**	5	3.134	-	30	366	206	165	160	
*315	32	**193 152 154**	3	3.118	-	30	366	206	165	160	
*315	40	**193 152 155**	3	3.124	-	30	366	206	165	160	
*315	50	**193 152 156**	3	3.136	-	30	366	206	165	160	
*315	63	**193 152 157**	3	3.134	-	30	366	206	165	160	

PF 2 51 313

53 154 200

Pressure Tapping Valve System C - Cutting drill with 360° rotatable outlet



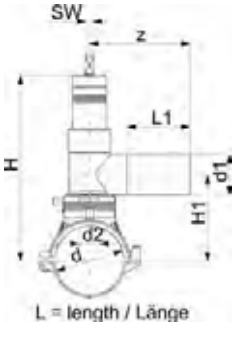
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Number of turns to fully open or close valve is 22
- Opening of the spanner (SW) is 14
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
63	32	**193 154 234**	-	2.935	-	33	272	112	165	76	120
63	63	**193 154 237**	5	2.740	-	33	272	112	165	100	160
75	32	**193 154 244**	5	3.065	-	33	278	118	165	76	120
75	63	**193 154 247**	5	2.870	-	33	278	118	165	100	160
90	32	**193 154 254**	5	3.025	-	33	286	126	165	76	120
90	63	**193 154 257**	5	2.830	-	33	286	126	165	100	160
110	32	**193 154 264**	-	3.093	-	33	296	136	165	76	120
110	63	**193 154 267**	3	2.900	-	33	296	136	165	100	160
125	32	**193 154 274**	3	3.123	-	33	303	143	165	76	120
125	63	**193 154 277**	3	2.930	-	33	303	143	165	100	160
140	32	**193 154 284**	3	3.123	-	33	311	151	165	76	120
140	63	**193 154 287**	3	2.930	-	33	311	151	165	100	160
160	32	**193 154 294**	-	3.126	-	33	321	161	165	76	120
160	63	**193 154 297**	3	2.930	-	33	321	161	165	100	160
180	32	**193 154 304**	3	3.232	-	33	331	171	165	76	120
180	63	**193 154 307**	3	3.037	-	33	331	171	165	100	160
200	32	**193 154 314**	-	3.251	-	33	341	181	165	76	120
200	63	**193 154 317**	3	3.056	-	33	341	181	165	100	160
225	32	**193 154 324**	3	3.253	-	33	353	193	165	76	120
225	63	**193 154 327**	4	3.058	-	33	353	193	165	100	160

PF 2 51 313

53 154 300

Pressure Tapping Valve System C - Cutting drill with 360° rotatable outlet



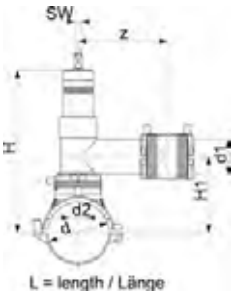
- **PE 100 SDR 17** (ISO S8)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- **Not suitable for pipes with thickness of wall bigger than SDR 17**
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Number of turns to fully open or close valve is 22
- Opening of the spanner (SW) is 14
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- * = delivery without lower part for assembling as Top Load with tool no. 799.350.475

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
250	32	**193 154 334**	3	3.000	-	33	366	206	165	76	120
250	63	**193 154 337**	3	3.070	-	33	366	206	165	100	160
*280	32	**193 154 344**	3	3.000	-	33	366	206	165	76	120
*280	63	**193 154 347**	3	2.800	-	33	366	206	165	100	160
*315	32	**193 154 354**	3	3.000	-	33	366	206	165	76	120
*315	63	**193 154 357**	3	2.800	-	33	366	206	165	100	160

PF 2 51 313

53 154 000

Pressure Tapping Valve (Kit) System C - Cutting drill with 360° rotatable outlet



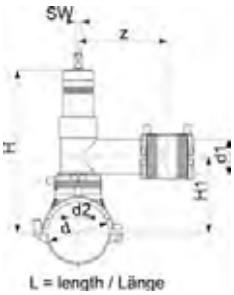
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Number of turns to fully open or close valve is 22
- Opening of the spanner (SW) is 14
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- Supplied as Kit with enclosed service line fitting (ELGEF® Plus Coupler or Reducer)

d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	z [mm]
63	32	**193 154 034**	5	2.918	-	33	272	112	165	160
63	40	**193 154 035**	5	2.924	-	33	272	112	165	160
63	50	**193 154 036**	5	2.936	-	33	272	112	165	160
63	63	**193 154 037**	5	2.934	-	33	272	112	165	160
75	32	**193 154 044**	5	3.048	-	33	278	118	165	160
75	40	**193 154 045**	5	3.054	-	33	278	118	165	160
75	50	**193 154 046**	5	3.066	-	33	278	118	165	160
75	63	**193 154 047**	5	3.064	-	33	278	118	165	160
90	32	**193 154 054**	5	3.008	-	33	286	126	165	160
90	40	**193 154 055**	5	3.014	-	33	286	126	165	160
90	50	**193 154 056**	5	3.026	-	33	286	126	165	160
90	63	**193 154 057**	5	3.024	-	33	286	126	165	160
110	32	**193 154 064**	3	3.076	-	33	296	136	165	160
110	40	**193 154 065**	3	3.082	-	33	296	136	165	160
110	50	**193 154 066**	3	3.094	-	33	296	136	165	160
110	63	**193 154 067**	3	3.092	-	33	296	136	165	160
125	32	**193 154 074**	3	3.106	-	33	303	143	165	160
125	40	**193 154 075**	3	3.112	-	33	303	143	165	160
125	50	**193 154 076**	3	3.124	-	33	303	143	165	160
125	63	**193 154 077**	3	3.122	-	33	303	143	165	160
140	32	**193 154 084**	3	3.106	-	33	311	151	165	160
140	40	**193 154 085**	3	3.112	-	33	311	151	165	160
140	50	**193 154 086**	3	3.124	-	33	311	151	165	160
140	63	**193 154 087**	3	3.122	-	33	311	151	165	160
160	32	**193 154 094**	3	3.109	-	33	321	161	165	160
160	40	**193 154 095**	3	3.115	-	33	321	161	165	160
160	50	**193 154 096**	3	3.127	-	33	321	161	165	160
160	63	**193 154 097**	3	3.125	-	33	321	161	165	160
180	32	**193 154 104**	3	3.215	-	33	331	171	165	160
180	40	**193 154 105**	3	3.221	-	33	331	171	165	160
180	50	**193 154 106**	3	3.233	-	33	331	171	165	160
180	63	**193 154 107**	3	3.231	-	33	331	171	165	160
200	32	**193 154 114**	3	3.234	-	33	341	181	165	160
200	40	**193 154 115**	3	3.240	-	33	341	181	165	160
200	50	**193 154 116**	3	3.252	-	33	341	181	165	160
200	63	**193 154 117**	3	3.250	-	33	341	181	165	160
225	32	**193 154 124**	4	3.236	-	33	353	193	165	160
225	40	**193 154 125**	3	3.242	-	33	353	193	165	160
225	50	**193 154 126**	3	3.254	-	33	353	193	165	160
225	63	**193 154 127**	3	3.252	-	33	353	193	165	160

PF 2 51 313

53 154 100

Pressure Tapping Valve (Kit) System C - Cutting drill with 360° rotatable outlet



- **PE 100 SDR 17** (ISO S8)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- **Not suitable for pipes with thickness of wall bigger than SDR 17**
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Number of turns to fully open or close valve is 22
- Opening of the spanner (SW) is 14
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- Supplied as kit with enclosed service line fitting (ELGEF® Plus Coupler or Reducer)
- * = delivery without lower part for assembling as Top Load with tool no. 799.350.475

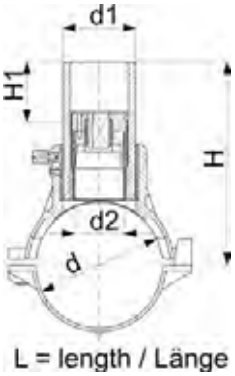
d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	z [mm]	
250	32	**193 154 134**	3	3.248	-	33	366	206	165	160	
250	40	**193 154 135**	3	3.254	-	33	366	206	165	160	
250	50	**193 154 136**	3	3.266	-	33	366	206	165	160	
250	63	**193 154 137**	3	3.264	-	33	366	206	165	160	
*280	32	**193 154 144**	3	2.970	-	33	366	206	165	160	
*280	40	**193 154 145**	5	2.975	-	33	366	206	165	160	
*280	50	**193 154 146**	5	2.990	-	33	366	206	165	160	
*280	63	**193 154 147**	5	2.990	-	33	366	206	165	160	
*315	32	**193 154 154**	3	2.970	-	33	366	206	165	160	
*315	40	**193 154 155**	3	2.975	-	33	366	206	165	160	
*315	50	**193 154 156**	3	2.990	-	33	366	206	165	160	
*315	63	**193 154 157**	3	2.990	-	33	366	206	165	160	

PF 2 51 313

53 131 200

Spigot Saddle with Cutter

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- * = delivery without lower part for assembling as Top Load with tool no. 799.350.475



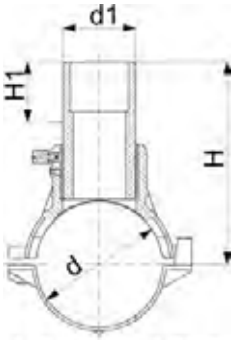
d [mm]	d1 [mm]	Code	GP	kg	SID	d2 [mm]	H [mm]	H1 [mm]	L [mm]	SW [mm]
63	32	**193 131 234**	5	0.538	-	19	145	50	165	13
63	63	**193 131 237**	5	1.036	-	32	152	50	165	17
75	32	**193 131 244**	5	0.668	-	19	151	50	165	13
75	63	**193 131 247**	5	1.166	-	32	158	50	165	17
90	32	**193 131 254**	5	0.628	-	19	158	50	165	13
90	63	**193 131 257**	5	1.126	-	32	165	50	165	17
110	32	**193 131 264**	3	0.696	-	19	168	50	165	13
110	63	**193 131 267**	5	1.194	-	32	175	50	165	17
125	32	**193 131 274**	5	0.726	-	19	176	50	165	13
125	63	**193 131 277**	5	1.224	-	32	183	50	165	17
140	32	**193 131 284**	5	0.726	-	19	183	50	165	13
140	63	**193 131 287**	5	1.224	-	32	190	50	165	17
160	32	**193 131 294**	5	0.729	-	19	193	50	165	13
160	63	**193 131 297**	5	1.227	-	32	200	50	165	17
180	32	**193 131 304**	5	0.835	-	19	203	50	165	13
180	63	**193 131 307**	5	1.333	-	32	210	50	165	17
200	32	**193 131 314**	5	0.854	-	19	213	50	165	13
200	63	**193 131 317**	5	1.352	-	32	220	50	165	17
225	32	**193 131 324**	5	0.856	-	19	226	50	165	13
225	63	**193 131 327**	5	1.354	-	32	233	50	165	17
250	32	**193 131 334**	5	0.868	-	19	238	50	165	13
250	63	**193 131 337**	5	1.366	-	32	245	50	165	17
*280	63	**193 131 347**	5	0.830	-	35	245	50	165	17
*315	63	**193 131 357**	5	0.830	-	35	245	50	165	17

PF 2 51 313

53 130 200

Spigot Saddle

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- * = delivery without lower part for assembling as Top Load with tool no. 799.350.475



L = length / Länge

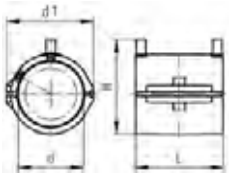
d [mm]	d1 [mm]	Code	GP	kg	SID	H [mm]	H1 [mm]	L [mm]
63	32	**193 130 234**	5	0.500	-	145	50	165
63	63	**193 130 237**	5	0.630	-	152	50	165
75	32	**193 130 244**	5	0.634	-	151	50	165
75	63	**193 130 247**	5	0.536	-	158	50	165
90	32	**193 130 254**	5	0.590	-	158	50	165
90	63	**193 130 257**	5	0.495	-	165	50	165
110	32	**193 130 264**	3	0.662	-	168	50	165
110	63	**193 130 267**	5	0.564	-	175	50	165
125	32	**193 130 274**	5	0.692	-	176	50	165
125	63	**193 130 277**	5	0.592	-	183	50	165
140	32	**193 130 284**	5	0.692	-	183	50	165
140	63	**193 130 287**	5	0.594	2	190	50	165
160	32	**193 130 294**	5	0.693	-	193	50	165
160	63	**193 130 297**	5	0.597	-	200	50	165
180	32	**193 130 304**	5	0.800	1	203	50	165
180	63	**193 130 307**	5	0.700	1	210	50	165
200	32	**193 130 314**	5	0.820	1	213	50	165
200	63	**193 130 317**	5	0.722	-	220	50	165
225	32	**193 130 324**	5	0.820	1	226	50	165
225	63	**193 130 327**	5	0.724	1	233	50	165
250	32	**193 130 334**	5	0.834	2	238	50	165
250	63	**193 130 337**	5	0.736	-	245	50	165
*280	63	**193 130 347**	5	0.400	2	245	50	165
*315	63	**193 130 357**	5	0.400	-	245	50	165

PF 2 51 313

53 127 000

Reinforcing Saddle

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- **Fusion voltage 24 Volt**
- 4 mm pin connectors
- For use as a repair saddle with PE repair plug (Code 799.199.088 and 799.199.089) and as
- Reinforcing saddle with an fusion area which extends the whole circumference of the pipe
- Use Spring clamp (Code 799.150.090) for installation



d [mm]	Code	GP	kg	SID	d1 [mm]	L [mm]	H [mm]
40	**193 127 017**	14	0.140	-	104	105	108
50	**193 127 027**	10	0.200	-	80	105	85
63	**193 127 037**	8	0.279	-	132	120	153
75	**193 127 047**	8	0.430	-	162	130	122
90	**193 127 057**	12	0.558	-	104	130	147
110	**193 127 067**	12	0.562	-	120	120	191
125	**193 127 077**	4	0.710	-	158	130	184
160	**193 127 097**	6	0.961	-	192	130	218
180	**193 127 107**	4	1.095	-	214	130	239
200	**193 127 117**	4	1.250	-	236	130	260
225	**193 127 127**	3	1.413	-	262	140	286

PF 2 51 303

Extension Spindle

60 050 600

Rigid Extension Spindle

PF 2 51 313

- For ELGEF® Plus Tapping Valve
- For POM Service Valve
- Suited for catalogue-no. 53 152 000, 53 152 100, 53 152 200, 53 152 300
- Suited for catalogue-no. 53 154 000, 53 154 100, 53 154 200, 53 154 300
- Red-coated steel rod, coupling socket made of GTS 38
- Protective - casing, anti-sand disc and SS spindle pin
- One dimension for all mains

Pipe cover [m]	Code	kg	SID	
0.75	**160 050 610**	1.176	-	
1.00	**160 050 611**	1.592	-	
1.25	**160 050 612**	2.031	-	
1.50	**160 050 613**	2.448	-	

60 050 500

Telescopic Extension Spindle

PF 2 51 313

- For ELGEF® Plus Tapping Valve
- For POM Service Valve
- Suited for catalogue-no. 53 152 000, 53 152 100, 53 152 200, 53 152 300
- Suited for catalogue-no. 53 154 000, 53 154 100, 53 154 200, 53 154 300
- Heat-galvanised rod assembly, coupling socket made of GTS 38
- PP/PE protective casing, dirt-tight centring-cap and anti-sand disk
- One dimension for all mains

Pipe cover [m]	Code	kg	SID	
0.85-1.05	**160 050 510**	1.701	-	
1.10-1.60	**160 050 511**	2.516	-	
1.30-1.90	**160 050 512**	2.718	-	

60 050 800

Telescopic Extension Spindle Locking system

PF 2 51 313

- For ELGEF® Plus Tapping Valve
- For POM Service Valve
- Suited for catalogue-no. 53 152 000, 53 152 100, 53 152 200, 53 152 300
- Suited for catalogue-no. 53 154 000, 53 154 100, 53 154 200, 53 154 300
- Telescope with locking systems for pin less and interlocking connection
- Heat-galvanised rod assembly, coupling socket made of GTS 38
- PP/PE protective casing, dirt-tight centring-cap and anti-sand disk
- One dimension for all mains

Pipe cover [m]	Code	kg	SID	
0,95-1,15	**160 050 810**	1.900	-	
1,15-1,65	**160 050 811**	2.700	-	
1,30-1,95	**160 050 812**	3.100	-	

Polyethylene
Piping Systems PE 100

Spigot Fittings for electrofusion and butt fusion (long ends)

Spigot Fittings for
butt fusion (short ends)

Transition Fittings PE/steel

Flanges, seals

Spigot Fittings in PE 100

53 10 10

Elbow 90° LS

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water

PF 2 51 301

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	e [mm]
20	**753 101 006**	40	0.027	-	75	52	3.0
25	**753 101 007**	40	0.037	-	80	52	3.0
32	**753 101 008**	40	0.053	-	85	54	3.0
40	**753 101 009**	30	0.093	-	95	57	3.7
50	**753 101 010**	30	0.159	-	105	63	4.6
63	**753 101 011**	20	0.275	-	115	65	5.8
75	**753 101 012**	12	0.413	-	130	72	6.8
90	**753 101 013**	8	0.704	-	150	81	8.2
110	**753 101 014**	8	1.145	-	165	86	10.0
125	**753 101 015**	6	1.609	-	180	93	11.4
140	**753 101 016**	5	1.920	-	202	92	12.7
160	**753 101 017**	5	3.100	-	210	103	14.6
180	**753 101 018**	3	4.319	-	232	107	16.4
200	**753 101 019**	3	5.733	-	253	117	18.2
225	**753 101 020**	1	7.780	-	270	122	20.5
250	**753 101 001**	2	11.015	-	292	130	22.7
280	**753 100 922**	2	15.740	-	320	139	25.4
315	**753 100 923**	1	21.960	1	365	150	28.6

53 10 08

Elbow 90° LS

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water

PF 2 51 301

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	e [mm]
90	**753 100 813**	8	0.544	-	150	81	5,4
110	**753 100 814**	8	0.625	-	165	86	6,6
125	**753 100 815**	6	0.927	-	180	93	7,4
140	**753 100 816**	5	1.430	-	202	92	8,3
160	**753 100 817**	5	3.040	-	210	102	9,5
180	**753 100 818**	3	3.750	-	232	107	10,7
200	**753 100 819**	3	4.980	-	253	115	11,9
225	**753 100 820**	1	6.850	-	270	120	13,4
250	**753 100 821**	2	7.735	-	292	130	14,8
280	**753 100 822**	2	9.000	-	320	139	16,6
315	**753 100 823**	1	15.250	1	365	150	18,7

53 15 10

Elbow 45° LS

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	e [mm]
20	**753 151 006**	-	0.026	3	70	52	3,0
25	**753 151 007**	-	0.035	3	75	52	3,0
32	**753 151 008**	25	0.051	-	80	54	3,0
40	**753 151 009**	30	0.082	-	85	57	3,7
50	**753 151 010**	22	0.137	-	90	63	4,6
63	**753 151 011**	12	0.300	-	95	65	5,8
75	**753 151 012**	12	0.346	-	105	72	6,8
90	**753 151 013**	6	0.578	-	120	81	8,2
110	**753 151 014**	12	0.931	-	130	86	10,0
125	**753 151 015**	6	1.286	-	140	92	11,4
140	**753 151 016**	4	1.600	-	164	92	12,7
160	**753 151 017**	6	2.461	-	162	102	14,6
180	**753 151 018**	5	3.283	-	170	107	16,4
200	**753 151 019**	3	4.371	-	186	116	18,2
225	**753 151 020**	2	6.013	-	200	123	20,5
250	**753 151 021**	3	8.300	-	220	130	22,7
280	**753 150 922**	3	10.600	-	230	139	25,4
315	**753 150 923**	2	13.100	-	250	150	28,6

PF 2 51 301

53 15 08

Elbow 45° LS

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	e [mm]
90	**753 150 813**	6	0.450	-	120	81	5,4
110	**753 150 814**	12	0.900	-	130	86	6,6
125	**753 150 815**	6	1.250	-	140	92	7,4
140	**753 150 816**	4	1.100	-	164	92	8,3
160	**753 150 817**	6	2.390	-	162	102	9,5
180	**753 150 818**	5	3.060	-	170	107	10,7
200	**753 150 819**	3	4.100	-	186	116	11,9
225	**753 150 820**	2	5.610	-	205	123	13,4
250	**753 150 821**	3	5.830	-	220	130	14,8
280	**753 150 822**	3	8.100	-	230	139	16,6
315	**753 150 823**	2	11.200	1	250	150	18,7

PF 2 51 301

53 12 09

Elbow 30° LS

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Welded design

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	e [mm]
32	**753 120 908**	-	0.530	3		54	3,0
40	**753 120 909**	-	0.530	3		57	3,7
50	**753 120 910**	-	0.530	3		63	4,6
63	**753 120 911**	8	0.207	3	85	65	5,8
75	**753 120 912**	4	0.530	-	95	72	6,8
90	**753 120 913**	10	0.540	-	110	81	8,2
110	**753 120 914**	2	0.840	-	115	86	10,0
125	**753 120 915**	-	1.240	3	125	92	11,4
140	**753 120 916**	-	1.760	3		92	12,7
160	**753 120 917**	2	2.050	-	140	102	14,6
180	**753 120 918**	2	2.907	3	150	107	16,4
200	**753 120 919**	2	8.600	3	160	116	18,2
225	**753 120 920**	-	5.360	3	170	123	20,5
250	**753 120 921**	-	0.530	3		130	22,7
280	**753 120 922**	-	0.530	3		139	25,4
315	**753 120 923**	-	0.530	3		150	28,6

PF 2 51 301

53 12 08

Elbow 30° LS

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- Welded design

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	e [mm]
90	**753 120 813**	2	0.430	1	110	81	5,4
110	**753 120 814**	5	0.620	1	115	86	6,6
125	**753 120 815**	-	1.070	3	125	92	7,4
140	**753 120 816**	-	1.490	3		92	8,3
160	**753 120 817**	2	1.600	1	140	102	9,5
180	**753 120 818**	-	2.040	3	150	107	10,7
200	**753 120 819**	-	2.780	3	160	116	11,9
225	**753 120 820**	-	3.880	3	170	123	13,4
250	**753 120 821**	2	0.620	3		130	14,8
280	**753 120 822**	-	0.620	3		139	16,6
315	**753 120 823**	1	0.620	3		150	18,7

PF 2 51 301

PF 2 51 301

Elbow 15° LS

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Welded design

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	e [mm]
32	**753 141 008**	-	0.620	3		54	3.0
40	**753 141 009**	-	0.620	3		57	3.7
50	**753 141 010**	-	0.620	3		63	4.6
63	**753 141 011**	8	0.200	3	80	65	5.8
75	**753 141 012**	-	0.250	3	90	72	6.8
90	**753 141 013**	5	0.487	3	100	81	8.2
110	**753 141 014**	-	0.785	3	105	86	10.0
125	**753 141 015**	8	1.070	3	115	92	11.4
140	**753 141 016**	-	0.620	3		92	12.7
160	**753 141 017**	-	2.050	3	125	102	14.6
180	**753 141 018**	-	2.669	3	135	107	16.4
200	**753 141 019**	3	3.440	3	145	116	18.2
225	**753 141 020**	-	4.900	3	155	123	20.5
250	**753 141 021**	-	0.620	3		130	22.7
280	**753 141 022**	-	0.620	3		139	25.4
315	**753 141 023**	-	0.620	3		150	28.6

PF 2 51 301

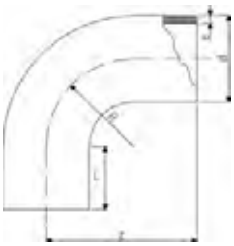
Elbow 15° LS

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- Welded design

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	e [mm]
90	**753 140 813**	-	0.370	3	100	81	5.4
110	**753 140 814**	-	0.620	3	105	86	6.6
125	**753 140 815**	-	0.990	3	115	92	7.4
140	**753 140 816**	-	0.370	3		92	8.3
160	**753 140 817**	-	1.600	3	125	102	9.5
180	**753 140 818**	-	2.040	3	135	107	10.7
200	**753 140 819**	-	2.780	3	145	116	11.9
225	**753 140 820**	2	4.820	3	155	123	13.4
250	**753 140 821**	-	0.370	3		130	14.8
280	**753 140 822**	-	0.370	3		139	16.6
315	**753 140 823**	1	0.370	3		150	18.7

53 00 09

Bend 90° LS



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water

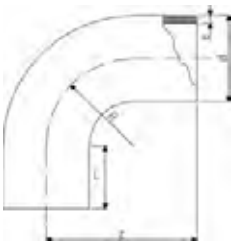
* made out of seamless pipe

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	R [mm]	e [mm]
20	**753 001 006**	1	0.020	1	63	41	20	1,9
25	**753 001 007**	25	0.030	-	68	41	25	2,3
32	**753 001 008**	30	0.050	-	78	46	32	2,9
40	**753 001 009**	35	0.090	1	91	49	40	3,7
50	**753 001 010**	40	0.160	-	107	55	50	4,6
63	**753 001 011**	50	0.290	-	130	63	63	5,8
75	**753 001 012**	32	0.300	1	152	70	75	6,8
90	**753 001 013**	18	0.530	1	168	79	90	8,2
110	**753 001 014**	12	0.890	-	193	82	110	10,0
125	**753 001 015**	15	1.290	1	216	87	125	11,4
140	**753 001 016**	-	2.230	3	232	92	140	12,7
160	**753 001 017**	8	2.460	-	258	98	160	14,6
180	**753 001 018**	-	5.000	3	290	105	180	16,4
200	**753 001 019**	1	4.480	1	317	112	200	18,2
225	**753 001 020**	2	9.770	1	350	120	225	20,5
250	**753 001 021**	2	9.230	1	375	130	250	22,7
280	**753 001 022**	1	17.410	3	430	150	280	25,4
315	**753 001 023**	1	23.950	1	470	150	315	28,6
*355	**753 001 024**	1	53.300	-	900	250	533	32,2
*400	**753 001 025**	1	71.900	1	980	250	600	36,3
*450	**753 001 026**	1	97.300	3	1070	250	675	40,9
*500	**753 001 027**	1	134.000	3	1200	280	750	45,4
*560	**753 001 028**	-	179.300	3	1290	280	840	50,8
*630	**753 001 029**	-	243.200	3	1400	280	945	57,2

PF 2 51 301

53 00 08

Bend 90° LS



- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water

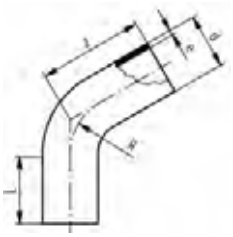
* made out of seamless pipe

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	R [mm]	e [mm]
90	**753 000 813**	1	0.600	1	168	79	90	5,4
110	**753 000 814**	1	1.000	1	193	82	110	6,6
125	**753 000 815**	1	1.300	3	216	87	125	7,4
140	**753 000 816**	1	2.500	-	232	92	140	8,3
160	**753 000 817**	-	2.500	1	258	98	160	9,5
180	**753 000 818**	1	4.000	-	290	105	180	10,7
200	**753 000 819**	1	6.500	-	317	112	200	11,9
225	**753 000 820**	1	8.500	1	350	120	225	13,4
250	**753 000 821**	1	8.500	3	375	130	250	14,8
280	**753 000 822**	1	15.000	3	430	150	280	16,6
315	**753 000 823**	1	24.000	1	470	150	315	18,7
*355	**753 000 824**	1	36.700	1	900	250	533	21,1
*400	**753 000 825**	1	49.700	1	980	250	600	23,7
*450	**753 000 826**	1	66.600	3	1070	250	675	26,7
*500	**753 000 827**	1	87.400	3	1200	280	750	29,7
*560	**753 000 828**	-	116.000	3	1290	280	840	33,2
*630	**753 000 829**	-	159.600	3	1400	280	945	37,4

PF 2 51 301

53 07 10

Bend 60° LS



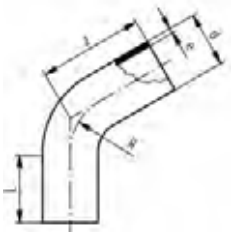
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- made out of seamless pipe

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	R [mm]	e [mm]
32	**753 071 008**	-	0.070	3	128	80	48	2,9
40	**753 071 009**	-	0.120	3	135	80	60	3,7
50	**753 071 010**	-	0.240	3	158	100	75	4,6
63	**753 071 011**	-	0.420	3	173	100	95	5,8
75	**753 071 012**	-	0.600	3	182	100	113	6,8
90	**753 071 013**	1	0.900	3	193	100	135	8,2
110	**753 071 014**	1	1.780	-	270	150	165	10,0
125	**753 071 015**	1	2.500	3	283	150	188	11,4
140	**753 071 016**	1	2.700	3	296	150	210	12,7
160	**753 071 017**	1	4.500	-	313	150	240	14,6
180	**753 071 018**	1	4.900	3	330	150	270	16,4
200	**753 071 019**	1	6.400	-	348	150	300	18,2
225	**753 071 020**	1	8.600	3	370	150	338	20,5
250	**753 071 021**	1	14.500	3	500	250	375	22,7
280	**753 071 022**	1	19.100	3	530	250	420	25,4
315	**753 071 023**	1	25.600	3	612	250	473	28,6
355	**753 071 024**	1	41.700	3	690	300	533	32,2
400	**753 071 025**	1	55.800	3	730	300	600	36,3
450	**753 071 026**	1	76.000	3	780	300	675	40,9
500	**753 071 027**	1	104.600	3	880	350	750	45,4
560	**753 071 028**	-	139.500	3	930	350	840	50,8
630	**753 071 029**	-	188.500	3	1000	350	945	57,2

PF 2 51 301

53 07 08

Bend 60° LS



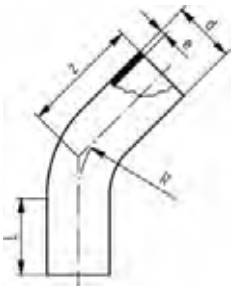
- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- made out of seamless pipe

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	R [mm]	e [mm]
90	**753 070 813**	1	0.600	3	193	100	135	5,4
110	**753 070 814**	1	1.280	1	270	150	165	6,6
125	**753 070 815**	1	1.300	3	283	150	187	7,4
140	**753 070 816**	1	1.800	3	296	150	210	8,3
160	**753 070 817**	1	3.160	1	313	150	240	9,5
180	**753 070 818**	1	3.190	3	330	150	270	10,7
200	**753 070 819**	1	4.200	1	348	150	300	11,9
225	**753 070 820**	1	5.600	3	370	150	337	13,4
250	**753 070 821**	1	9.250	3	500	250	375	14,8
280	**753 070 822**	1	15.000	3	530	250	420	16,6
315	**753 070 823**	1	19.500	1	612	250	472	18,7
355	**753 070 824**	1	30.100	3	690	300	532	21,1
400	**753 070 825**	1	38.200	3	730	300	600	23,7
450	**753 070 826**	1	53.700	3	780	300	675	26,7
500	**753 070 827**	1	73.900	3	880	350	750	29,7
560	**753 070 828**	-	98.200	3	930	350	840	33,2
630	**753 070 829**	-	132.300	3	1000	350	945	37,4

PF 2 51 301

53 05 10

Bend 45° LS



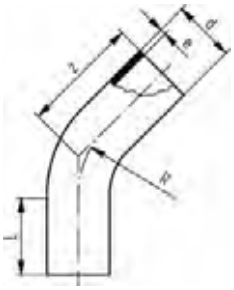
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- made out of seamless pipe

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	R [mm]	e [mm]
32	**753 051 008**	-	0.077	3	120	80	48	2,9
40	**753 051 009**	-	0.120	3	120	80	60	3,7
50	**753 051 010**	-	0.240	3	149	100	75	4,6
63	**753 051 011**	-	0.360	3	161	100	95	5,8
75	**753 051 012**	-	0.560	3	168	100	113	6,8
90	**753 051 013**	1	0.840	3	177	100	135	8,2
110	**753 051 014**	1	1.700	3	243	150	165	10,0
125	**753 051 015**	1	2.300	1	253	150	188	11,4
140	**753 051 016**	1	2.800	3	262	150	210	12,7
160	**753 051 017**	1	3.800	-	274	160	240	14,6
180	**753 051 018**	1	5.140	3	287	150	270	16,4
200	**753 051 019**	1	5.600	3	299	150	300	18,2
225	**753 051 020**	1	7.400	1	315	150	338	20,5
250	**753 051 021**	1	13.000	1	440	250	375	22,7
280	**753 051 022**	1	15.000	3	460	250	420	25,4
315	**753 051 023**	1	24.930	3	535	250	473	28,6
355	**753 051 024**	1	39.500	3	620	300	533	32,2
400	**753 051 025**	1	48.500	3	650	300	600	36,3
450	**753 051 026**	1	69.800	3	680	300	675	40,9
500	**753 051 027**	1	96.300	3	760	350	750	45,4
560	**753 051 028**	-	129.800	3	800	350	840	50,8
630	**753 051 029**	-	174.000	3	870	350	945	57,2

PF 2 51 301

53 05 08

Bend 45° LS



- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- made out of seamless pipe

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	R [mm]	e [mm]
90	**753 050 813**	1	0.600	3	177	100	135	5,4
110	**753 050 814**	1	1.100	3	243	150	165	6,6
125	**753 050 815**	1	1.200	3	253	150	188	7,4
140	**753 050 816**	1	1.720	3	262	150	210	8,3
160	**753 050 817**	1	2.200	-	274	150	240	9,5
180	**753 050 818**	1	3.000	1	287	150	270	10,7
200	**753 050 819**	1	3.700	3	299	150	300	11,9
225	**753 050 820**	1	5.000	1	315	150	338	13,4
250	**753 050 821**	1	10.000	3	440	250	375	14,8
280	**753 050 822**	1	15.000	3	460	250	420	16,6
315	**753 050 823**	1	17.800	3	535	250	473	18,7
355	**753 050 824**	1	25.600	1	620	300	533	21,1
400	**753 050 825**	1	36.600	1	650	300	600	23,7
450	**753 050 826**	1	45.300	3	680	300	675	26,7
500	**753 050 827**	1	62.400	3	760	350	750	29,7
560	**753 050 828**	-	81.900	3	800	350	840	33,2
630	**753 050 829**	-	62.400	3	870	350	945	37,4

PF 2 51 301

53 06 10

Bend 30° LS

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- made out of seamless pipe

PF 2 51 301

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	R [mm]	e [mm]
32	**753 061 008**	-	0.077	3	113	80	48	2,9
40	**753 061 009**	-	0.120	3	116	80	60	3,7
50	**753 061 010**	-	0.200	3	140	100	75	4,6
63	**753 061 011**	-	0.400	3	150	100	95	5,8
75	**753 061 012**	-	0.520	3	155	100	113	6,8
90	**753 061 013**	1	0.760	3	160	100	135	8,2
110	**753 061 014**	1	1.500	-	219	150	165	10,0
125	**753 061 015**	1	2.000	1	225	150	188	11,4
140	**753 061 016**	1	2.200	3	231	150	210	12,7
160	**753 061 017**	1	3.300	1	239	150	240	14,6
180	**753 061 018**	1	3.700	3	247	150	270	16,4
200	**753 061 019**	1	4.750	-	255	150	300	18,2
225	**753 061 020**	1	6.300	1	266	150	338	20,5
250	**753 061 021**	1	13.100	-	385	250	375	22,7
280	**753 061 022**	1	16.300	3	400	250	420	25,4
315	**753 061 023**	1	21.850	3	460	250	473	28,6
355	**753 061 024**	1	34.900	3	540	300	533	32,2
400	**753 061 025**	1	45.900	3	560	300	600	36,3
450	**753 061 026**	1	60.200	3	580	300	675	40,9
500	**753 061 027**	-	83.300	3	630	350	750	45,4
560	**753 061 028**	-	108.600	3	680	350	840	50,8
630	**753 061 029**	-	148.300	3	730	350	945	57,2

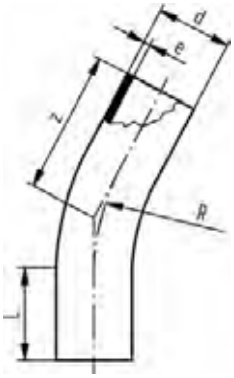
53 06 08

Bend 30° LS

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- made out of seamless pipe

PF 2 51 301

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	R [mm]	e [mm]
90	**753 060 813**	-	0.500	3	160	100	135	5,4
110	**753 060 814**	-	1.060	3	219	150	165	6,6
125	**753 060 815**	-	1.100	3	225	150	188	7,4
140	**753 060 816**	-	1.720	3	231	150	210	8,3
160	**753 060 817**	-	1.900	3	239	150	240	9,5
180	**753 060 818**	-	2.500	1	247	150	270	10,7
200	**753 060 819**	-	3.200	-	255	150	300	11,9
225	**753 060 820**	-	7.540	1	266	150	338	13,4
250	**753 060 821**	-	11.600	3	385	250	375	14,8
280	**753 060 822**	-	12.800	-	400	250	420	16,6
315	**753 060 823**	-	25.000	1	460	250	473	18,7
355	**753 060 824**	-	22.700	3	540	300	533	21,1
400	**753 060 825**	-	29.800	3	560	300	600	23,7
450	**753 060 826**	-	39.100	3	580	300	675	26,7
500	**753 060 827**	-	54.000	3	650	350	750	29,7
560	**753 060 828**	-	70.300	3	680	350	840	33,2
630	**753 060 829**	-	95.800	3	730	350	945	37,4

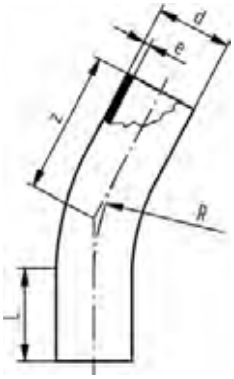


PF 2 51 301

Bend 22° LS

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- made out of seamless pipe

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	R [mm]	e [mm]
32	**753 081 008**	-	0.077	3	113	80	48	2,9
40	**753 081 009**	-	0.120	3	116	80	60	3,7
50	**753 081 010**	-	0.200	3	140	100	75	4,6
63	**753 081 011**	-	0.400	3	150	100	95	5,8
75	**753 081 012**	-	0.520	3	155	100	113	6,8
90	**753 081 013**	-	0.760	3	160	100	135	8,2
110	**753 081 014**	-	1.500	3	219	150	165	10,0
125	**753 081 015**	-	2.000	3	225	150	188	11,4
140	**753 081 016**	-	2.200	3	231	150	210	12,7
160	**753 081 017**	-	3.300	3	239	150	240	14,6
180	**753 081 018**	-	3.700	3	247	150	270	16,4
200	**753 081 019**	-	4.750	3	255	150	300	18,2
225	**753 081 020**	-	6.300	3	266	150	338	20,5
250	**753 081 021**	-	13.100	3	385	250	375	22,7
280	**753 081 022**	-	16.300	3	400	250	420	25,4
315	**753 081 023**	-	21.845	3	460	250	473	28,6
355	**753 081 024**	-	34.900	3	540	300	533	32,2
400	**753 081 025**	-	45.900	3	560	300	600	36,3
450	**753 081 026**	-	60.200	3	580	300	675	40,9
500	**753 081 027**	-	83.300	3	650	350	750	45,4
560	**753 081 028**	-	108.600	3	680	350	840	50,8
630	**753 081 029**	-	148.300	3	730	350	945	57,2



PF 2 51 301

Bend 22° LS

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- made out of seamless pipe

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	R [mm]	e [mm]
90	**753 080 813**	-	0.500	3	160	100	135	5.4
110	**753 080 814**	-	1.060	3	219	150	165	6.6
125	**753 080 815**	-	1.100	3	225	150	188	7.4
140	**753 080 816**	-	1.720	3	231	150	210	8.3
160	**753 080 817**	-	1.900	3	239	150	240	9.5
180	**753 080 818**	-	2.500	3	247	150	270	10.7
200	**753 080 819**	-	3.200	3	255	150	300	11.9
225	**753 080 820**	-	7.540	3	266	150	338	13.4
250	**753 080 821**	-	11.600	3	385	250	375	14.8
280	**753 080 822**	-	12.800	3	400	250	420	16.6
315	**753 080 823**	-	25.000	3	460	250	473	18.7
355	**753 080 824**	-	22.700	3	540	300	533	21.1
400	**753 080 825**	-	29.800	3	560	300	600	23.7
450	**753 080 826**	-	39.100	3	580	300	675	26.7
500	**753 080 827**	-	54.000	3	650	350	750	29.7
560	**753 080 828**	-	70.300	3	680	350	840	33.2
630	**753 080 829**	-	95.800	3	730	350	945	37.4

PF 2 51 301

Bend 11° LS

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- made out of seamless pipe

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	R [mm]	e [mm]
32	**753 091 008**	-	0.077	3	113	80	48	2.9
40	**753 091 009**	-	0.120	3	116	80	60	3.7
50	**753 091 010**	-	0.200	3	140	100	75	4.6
63	**753 091 011**	-	0.400	3	150	100	95	5.8
75	**753 091 012**	-	0.520	3	155	100	113	6.8
90	**753 091 013**	-	0.760	3	160	100	135	8.2
110	**753 091 014**	-	1.500	3	219	150	165	10.0
125	**753 091 015**	-	2.000	3	225	150	188	11.4
140	**753 091 016**	-	2.200	3	231	150	210	12.7
160	**753 091 017**	-	3.300	3	239	150	240	14.6
180	**753 091 018**	-	3.700	3	247	150	270	16.4
200	**753 091 019**	-	4.750	3	255	150	300	18.2
225	**753 091 020**	-	6.300	3	266	150	338	20.5
250	**753 091 021**	-	13.100	3	385	250	375	22.7
280	**753 091 022**	-	16.300	3	400	250	420	25.4
315	**753 091 023**	-	21.845	3	460	250	473	28.6
355	**753 091 024**	-	34.900	3	540	300	533	32.2
400	**753 091 025**	-	45.900	3	560	300	600	36.3
450	**753 091 026**	-	60.200	3	580	300	675	40.9
500	**753 091 027**	-	83.300	3	650	350	750	45.4
560	**753 091 028**	-	108.600	3	680	350	840	50.8
630	**753 091 029**	-	148.300	3	730	350	945	57.2

PF 2 51 301

Bend 11° LS

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- made out of seamless pipe

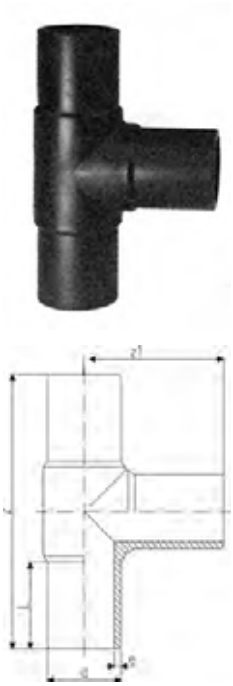
d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	R [mm]	e [mm]
90	**753 090 813**	-	0.500	3	160	100	135	5.4
110	**753 090 814**	-	1.060	3	219	150	165	6.6
125	**753 090 815**	-	1.100	3	225	150	188	7.4
140	**753 090 816**	-	1.720	3	231	150	210	8.3
160	**753 090 817**	-	1.900	3	239	150	240	9.5
180	**753 090 818**	-	2.500	3	247	150	270	10.7
200	**753 090 819**	-	3.200	3	255	150	300	11.9
225	**753 090 820**	-	7.540	3	266	150	338	13.4
250	**753 090 821**	-	11.600	3	385	250	375	14.8
280	**753 090 822**	-	12.800	3	400	250	420	16.6
315	**753 090 823**	-	25.000	3	460	250	473	18.7
355	**753 090 824**	-	22.700	3	540	300	533	21.1
400	**753 090 825**	-	29.800	3	560	300	600	23.7
450	**753 090 826**	-	39.100	3	580	300	675	26.7
500	**753 090 827**	-	54.000	3	650	350	750	29.7
560	**753 090 828**	-	70.300	3	680	350	840	33.2
630	**753 090 829**	-	95.800	3	730	350	945	37.4

53 20 10

Tee 90°, equal LS

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water

* With welded pipes
* Segment welded and reinforced
* No pressure reduction factor



PF 2 51 301

d [mm]	Code	GP	kg	SID	z [mm]	z1 [mm]	L [mm]	e [mm]
20	**753 201 006**	30	0.038	-	150	75	52	3,0
25	**753 201 007**	25	0.054	-	160	80	52	3,0
32	**753 201 008**	20	0.074	-	170	85	54	3,0
40	**753 201 009**	20	0.127	-	190	95	57	3,7
50	**753 201 010**	20	0.217	-	210	105	63	4,6
63	**753 201 011**	14	0.375	-	230	115	65	5,8
75	**753 201 012**	16	0.616	-	264	132	72	6,8
90	**753 201 013**	7	1.031	-	300	150	81	8,2
110	**753 201 014**	5	1.660	-	330	165	86	10,0
125	**753 201 015**	4	2.215	-	366	183	92	11,4
140	**753 201 016**	3	3.200	-	396	198	92	12,7
160	**753 201 017**	4	4.320	-	420	210	102	14,6
180	**753 201 018**	3	5.980	-	460	230	107	16,4
200	**753 201 019**	2	7.760	-	500	250	117	18,2
225	**753 201 020**	-	10.485	-	540	270	122	20,5
250	**753 201 001**	-	14.840	-	576	288	130	22,7
280	**753 200 902**	1	18.670	-	616	308	139	25,4
315	**753 200 903**	1	26.150	-	690	345	150	28,6
355	**753 200 904**	-	39.800	1	818	409	165	32,2
400	**753 200 905**	-	42.495	1	910	455	180	36,3
450	**753 200 906**	-	77.300	-	954	477	195	40,9
500	**753 200 907**	-	101.000	-	1040	520	215	45,4
*560	**753 200 908**	-	153.300	3				50,8
*630	**753 200 909**	-	205.500	3				57,2

53 20 08

Tee 90°, equal LS

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water

* Segment welded and reinforced
* With welded pipes
* No pressure reduction factor

PF 2 51 301

d [mm]	Code	GP	kg	SID	z [mm]	z1 [mm]	L [mm]	e [mm]
90	**753 200 813**	7	0.780	-	300	150	80	5,4
110	**753 200 814**	5	1.440	-	330	165	86	6,6
125	**753 200 815**	4	1.646	-	366	183	92	7,4
140	**753 200 816**	3	2.120	-	396	198	92	8,3
160	**753 200 817**	4	3.970	-	428	214	104	9,5
180	**753 200 818**	3	5.450	-	460	230	105	10,7
200	**753 200 819**	2	5.910	-	500	250	115	11,9
225	**753 200 820**	1	8.240	-	540	270	122	13,4
250	**753 200 821**	2	9.380	1	576	288	130	14,8
280	**753 200 802**	1	12.650	1	616	308	139	16,6
315	**753 200 803**	1	18.155	1	690	345	150	18,7
355	**753 200 804**	-	25.850	1	818	409	165	21,1
400	**753 200 805**	-	35.015	-	910	455	180	23,7
450	**753 200 806**	-	56.000	-	954	477	195	26,7
500	**753 200 807**	-	71.000	-	1040	520	215	29,7
*560	**753 200 808**	-	99.200	3				33,2
*630	**753 200 809**	-	132.700	3				37,4

Tee 90°, reduced LS moulded

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water

d [mm]	d1 [mm]	Code	GP	kg	SID	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
63	50	**753 201 044**	10	0.300	-	215	103	63	56	5.8	4.6
75	32	**753 201 045**	10	0.490	1	256	108	70	46	6.8	2.9
75	50	**753 201 046**	10	0.530	1	253	113	70	56	6.8	4.6
75	63	**753 201 047**	10	0.560	1	255	117	70	63	6.8	5.8
90	50	**753 201 027**	-	0.820	1	280	117	79	55	8.2	4.6
90	63	**753 201 029**	15	0.775	-	280	123	79	63	8.2	5.8
90	75	**753 201 030**	3	0.793	1	272	138	73	68	8.2	6.8
110	63	**753 201 028**	10	1.267	-	320	147	87	63	10.0	5.8
110	75	**753 201 031**	2	1.244	-	309	151	82	70	10.0	6.8
110	90	**753 201 032**	10	1.275	-	320	158	86	79	10.0	8.2
125	90	**753 201 048**	3	2.389	-	340	170	112	92	11.4	8.2
125	110	**753 201 033**	3	1.860	1	341	170	90	83	11.4	10.0
160	63	**753 201 034**	8	2.680	-	343	176	98	65	14.6	5.8
160	75	**753 201 035**	2	2.726	-	343	180	98	74	14.6	6.8
160	90	**753 201 036**	8	2.775	-	412	188	101	79	14.6	8.2
160	110	**753 201 037**	8	3.300	-	412	195	101	82	14.6	10.0
180	90	**753 201 049**	1	4.100	1	418	200	136	97	16.4	8.2
180	110	**753 201 050**	2	4.379	1	430	206	130	101	16.4	10.0
180	160	**753 201 038**	1	4.379	1	411	205	105	94	16.4	14.6
200	63	**753 201 073**	-	7.300	-	500	190	122	63	18.2	5.8
200	90	**753 201 074**	4	9.730	1	500	207	122	79	18.2	8.2
200	110	**753 201 075**	-	9.730	1	500	215	122	82	18.2	10.0
200	160	**753 201 076**	-	9.730	1	500	234	122	98	18.2	14.6
225	75	**753 201 039**	1	6.500	1	555	215	120	70	20.5	6.8
225	90	**753 201 040**	3	6.633	-	558	226	120	80	20.5	8.2
225	110	**753 201 041**	3	6.600	-	558	235	120	82	20.5	10.0
225	160	**753 201 042**	3	8.095	-	560	253	120	98	20.5	14.6
225	180	**753 201 043**	3	9.375	1	560	280	120	105	20.5	16.4
250	110	**753 201 078**	-	9.730	1	575	242	130	82	22.7	10.0
250	160	**753 201 079**	-	9.730	1	575	261	127	98	22.7	14.6
315	110	**753 201 051**	-	15.300	1	695	277	150	82	28.6	10.0
315	160	**753 201 052**	1	16.600	1	695	296	150	102	28.6	14.6
315	225	**753 201 053**	-	20.500	1	650	335	170	145	28.6	20.5
315	250	**753 201 054**	-	22.000	1	695	325	150	130	28.6	22.7

PF 2 51 301

53 20 08

Tee 90°, reduced LS moulded

PF 2 51 301

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water

d [mm]	d1 [mm]	Code	GP	kg	SID	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
90	50	**753 201 827**	-	0.630	3	275	117	79	55	5,4	3,0
90	63	**753 200 829**	15	0.560	1	275	123	79	63	5,4	3,8
90	75	**753 200 830**	6	0.593	1	272	139	74	71	5,4	4,5
110	63	**753 200 828**	10	0.900	1	318	147	82	63	6,6	3,8
110	75	**753 200 831**	2	0.882	1	315	152	84	70	6,6	4,5
110	90	**753 200 832**	10	0.941	1	318	158	82	79	6,6	5,4
125	110	**753 200 833**	1	1.282	-	334	168	84	83	7,4	6,6
160	63	**753 200 834**	2	1.950	1	330	130	86	63	9,5	3,8
160	75	**753 200 835**	2	1.960	1	343	180	98	74	9,5	4,5
160	90	**753 200 836**	8	1.972	-	410	188	98	79	9,5	5,4
160	110	**753 200 837**	8	2.414	-	410	195	98	82	9,5	6,6
180	90	**753 200 844**	1	3.218	1	422	204	134	97	10,7	5,4
180	160	**753 200 838**	1	5.890	1	411	205	105	94	10,7	9,5
200	63	**753 201 873**	-	6.800	-	500	190	122	63	11,9	3,8
200	90	**753 201 874**	-	6.900	-	500	207	122	79	11,9	5,4
200	110	**753 201 875**	-	7.200	-	500	215	122	82	11,9	6,6
200	160	**753 201 876**	-	7.400	-	500	234	122	98	11,9	9,5
225	75	**753 200 839**	-	4.600	3	555	277	120	70	13,4	4,5
225	90	**753 200 840**	3	4.732	1	555	226	127	80	13,4	5,4
225	110	**753 200 841**	3	4.700	1	555	235	127	82	13,4	6,6
225	160	**753 200 842**	3	5.922	-	555	253	127	98	13,4	9,5
225	180	**753 200 843**	1	7.211	1	550	280	120	105	13,4	10,7
250	110	**753 201 878**	-	9.400	-	575	242	130	82	14,8	6,6
250	160	**753 201 879**	-	9.800	-	575	261	130	98	14,8	9,5
315	110	**753 200 851**	1	10.800	1	695	277	150	82	18,7	6,6
315	160	**753 200 852**	1	12.200	1	695	296	150	102	18,7	9,5
315	225	**753 200 853**	-	14.500	1	650	335	170	145	18,7	13,4
315	250	**753 200 854**	-	15.500	1	695	325	150	130	18,7	14,8

53 20 10

Tee 90°, reduced LS with welded reducer

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With welded reducer

d [mm]	d1 [mm]	Code	GP	kg	SID	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
25	20	**753 201 002**	-	0.300	3	160		52	52	3,0	3,0
32	20	**753 201 003**	-	0.300	3	170		54	52	3,0	3,0
32	25	**753 201 004**	-	0.300	3	170		54	52	3,0	3,0
40	20	**753 201 005**	-	0.130	3	190	120	57	52	3,7	3,0
40	25	**753 201 069**	-	0.140	3	190	120	57	52	3,7	3,0
40	32	**753 201 070**	-	0.300	3	190		57	52	3,7	3,0
50	20	**753 201 072**	-	0.210	3	210	140	63	52	4,6	3,0
50	25	**753 201 077**	-	0.220	3	210	130	63	52	4,6	3,0
50	32	**753 201 080**	20	0.230	3	210	130	63	53	4,6	3,0
50	40	**753 201 081**	-	0.300	3	210		63	57	4,6	3,7
63	32	**753 201 082**	-	0.378	3	230	145	65	53	5,8	3,0
63	40	**753 201 116**	-	0.378	3	230	145	65	57	5,8	3,7
75	40	**753 201 084**	-	0.300	3	264		72	57	6,8	3,7
125	63	**753 201 085**	8	0.300	1	366		92	61	11,4	5,8
125	75	**753 201 086**	-	2.389	3	366	225	92	72	11,4	6,8
140	75	**753 201 087**	4	0.300	3	396		92	70	12,7	6,8
140	90	**753 201 089**	4	0.300	3	396		92	79	12,7	8,2
140	110	**753 201 090**	-	0.300	3	396		92	82	12,7	10,0
140	125	**753 201 091**	-	0.300	3	396		92	90	12,7	11,4
160	125	**753 201 092**	4	4.465	3	420	265	102	92	14,6	11,4
160	140	**753 201 093**	-	0.300	3	420		102	96	14,6	12,7
180	125	**753 201 094**	2	0.300	3	460	285	107	92	16,4	11,4
180	140	**753 201 095**	-	0.300	3	460		107	110	16,4	12,7
200	125	**753 201 096**	-	0.300	3	500	295	117	92	18,2	11,4
200	140	**753 201 097**	-	0.300	3	500		117	110	18,2	12,7
200	180	**753 201 098**	-	0.300	3	500		117	110	18,2	16,4
225	125	**753 201 099**	-	0.300	3	540	320	122	92	20,5	11,4
225	140	**753 201 100**	-	0.300	3	540		122	110	20,5	12,7
225	200	**753 201 101**	-	0.300	3	540		122	117	20,5	18,2
250	180	**753 201 102**	-	0.300	3	576		130	105	22,7	16,4
250	200	**753 201 103**	1	0.300	3	576		130	112	22,7	18,2
250	225	**753 201 104**	-	0.300	3	576		130	120	22,7	20,5
280	200	**753 201 105**	-	0.300	3	616		139	112	25,4	18,2
280	225	**753 201 106**	-	0.300	3	616		139	120	25,4	20,5
280	250	**753 201 107**	-	0.300	3	616		139	130	25,4	22,7
315	200	**753 201 108**	1	0.300	3	690		150	134	28,6	18,2
315	280	**753 201 109**	-	0.300	3	690		150	139	28,6	25,4
355	250	**753 201 110**	1	0.300	3	818		165	130	32,2	22,7
355	280	**753 201 111**	-	0.300	3	818		165	139	32,2	25,4
355	315	**753 201 112**	-	0.300	3	818		165	150	32,2	28,6
400	280	**753 201 113**	-	0.300	3	910		180	139	36,3	25,4
400	315	**753 201 114**	-	0.300	3	910		180	150	36,3	28,6
400	355	**753 201 115**	-	0.300	3	910		180	165	36,3	32,2

PF 2 51 301

Dimensions up to 630 mm on request!

Tee 90°, reduced LS with welded reducer

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water

d [mm]	d1 [mm]	Code	GP	kg	SID	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]	
125	63	**753 200 801**	-	0.560	3	366		92	61	7.4	3.8	
125	75	**753 200 810**	-	0.560	3	366	235	92	72	7.4	4.5	
125	90	**753 200 811**	-	0.560	3	366	235	92	80	7.4	5.4	
140	75	**753 200 812**	-	0.560	3	396		92	70	8.3	4.5	
140	90	**753 200 822**	-	0.560	3	396		92	78	8.3	5.4	
140	110	**753 200 823**	-	0.560	3	396		92	82	8.3	6.6	
140	125	**753 200 824**	-	0.560	3	396		92	87	8.3	7.4	
160	125	**753 200 825**	-	0.560	3	428	265	104	90	9.5	5.4	
160	140	**753 200 826**	-	0.560	3	428		104	96	9.5	8.3	
180	110	**753 200 827**	2	0.560	3	460		105	92	10.7	6.6	
180	125	**753 200 845**	-	0.560	3	460	285	105	90	10.7	7.4	
180	140	**753 200 846**	-	0.560	3	460		105	110	10.7	8.3	
200	125	**753 200 847**	-	0.560	3	500	295	115	92	11.9	7.4	
200	140	**753 200 848**	-	0.560	3	500		115	110	11.9	8.3	
200	180	**753 200 849**	-	0.560	3	500		115	110	11.9	10.7	
225	125	**753 200 850**	-	0.560	3	540	320	122	92	13.4	7.4	
225	140	**753 200 855**	-	0.560	3	540		122	110	13.4	8.3	
225	200	**753 200 856**	-	0.560	3	540		122	115	13.4	11.9	
250	180	**753 200 857**	-	0.560	3	576		130	105	14.8	10.7	
250	200	**753 200 858**	-	0.560	3	576		130	112	14.8	11.9	
250	225	**753 200 859**	-	0.560	3	576		130	120	14.8	13.4	
280	200	**753 200 860**	-	0.560	3	616		139	112	16.6	11.9	
280	225	**753 200 861**	-	0.560	3	616		139	120	16.6	13.4	
280	250	**753 200 862**	-	0.560	3	616		139	130	16.6	14.8	
315	200	**753 200 863**	-	0.560	3	690		150	134	18.7	11.9	
315	280	**753 200 864**	-	0.560	3	690		150	139	18.7	16.6	
355	250	**753 200 865**	-	0.560	3	818		165	130	21.1	14.8	
355	280	**753 200 866**	-	0.560	3	818		165	139	21.1	16.6	
355	315	**753 200 867**	-	0.560	3	818		165	150	21.1	18.7	
400	280	**753 200 868**	-	0.560	3	910		180	139	23.7	16.6	
400	315	**753 200 869**	-	0.560	3	910		180	150	23.7	18.7	
400	355	**753 200 870**	-	0.560	3	910		180	165	23.7	21.1	

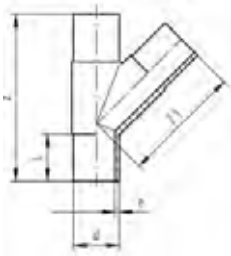
PF 2 51 301

Dimensions up to 630 mm on request!

53 25 10

Tee 45°, equal LS

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water



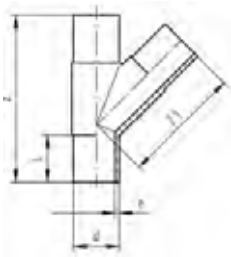
PF 2 51 301

d [mm]	Code	GP	kg	SID	z [mm]	z1 [mm]	L [mm]	e [mm]
63	**753 251 011**	-	0.500	1	255	158	63	5,8
75	**753 251 012**	-	0.800	1	301	190	70	6,8
90	**753 251 013**	-	1.300	1	368	234	79	8,2
110	**753 251 014**	-	1.800	1	395	260	82	10,0

53 25 10

Tee 45°, equal LS

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water



PF 2 51 301

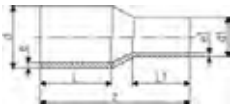
d [mm]	Code	GP	kg	SID	z [mm]	z1 [mm]	L [mm]	e [mm]
90	**753 251 063**	-	0.800	1	368	234	79	5,4
110	**753 251 064**	-	1.400	1	395	260	82	6,6

53 90 10

Reducer LS

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water

d [mm]	d1 [mm]	Code	GP	kg	SID	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
25	20	**753 901 038**	40	0.022	-	115	52	52	3,0	3,0
32	20	**753 901 042**	50	0.028	-	120	54	52	3,0	3,0
32	25	**753 901 041**	45	0.031	-	120	54	52	3,0	3,0
40	20	**753 901 048**	40	0.040	-	130	57	52	3,7	3,0
40	25	**753 901 047**	50	0.043	-	130	57	53	3,7	3,0
40	32	**753 901 046**	40	0.047	-	130	57	52	3,7	3,0
50	20	**753 901 055**	20	0.064	-	150	63	52	4,6	3,0
50	25	**753 901 054**	45	0.066	-	140	63	52	4,6	3,0
50	32	**753 901 053**	40	0.067	-	140	63	53	4,6	3,0
50	40	**753 901 052**	25	0.079	-	140	63	57	4,6	3,7
63	32	**753 901 060**	28	0.109	-	150	65	53	5,8	3,0
63	40	**753 901 059**	28	0.119	-	150	65	57	5,8	3,7
63	50	**753 901 058**	24	0.130	-	150	65	63	5,8	4,6
75	40	**753 901 063**	18	0.178	-	170	72	57	6,8	3,7
75	50	**753 901 064**	18	0.191	-	170	72	63	6,8	4,6
75	63	**753 901 065**	15	0.216	-	170	72	65	6,8	5,8
90	50	**753 901 072**	15	0.291	-	190	81	63	8,2	4,6
90	63	**753 901 071**	20	0.317	-	190	81	65	8,2	5,8
90	75	**753 901 070**	17	0.361	-	190	81	70	8,2	6,8
110	63	**753 901 078**	10	0.469	-	205	86	65	10,0	5,8
110	75	**753 901 077**	10	0.497	-	205	86	70	10,0	6,8
110	90	**753 901 076**	9	0.557	-	205	86	81	10,0	8,2
125	63	**753 901 083**	22	0.579	-	200	87	63	11,4	5,8
125	75	**753 901 082**	8	0.660	-	200	87	63	11,4	6,8
125	90	**753 901 081**	6	0.735	-	200	87	79	11,4	8,2
125	110	**753 901 080**	6	0.819	-	200	87	82	11,4	10,0
140	75	**753 901 086**	-	0.560	1	230	92	70	12,7	6,8
140	90	**753 901 087**	-	0.690	1	230	92	79	12,7	8,2
140	110	**753 901 084**	-	0.820	1	230	92	82	12,7	10,0
140	125	**753 901 085**	12	0.988	-	235	92	87	12,7	11,4
160	90	**753 901 088**	10	1.060	-	248	98	79	14,6	8,2
160	110	**753 901 090**	5	1.240	-	245	98	82	14,6	10,0
160	125	**753 901 089**	8	1.403	-	245	98	87	14,6	11,4
160	140	**753 901 032**	10	1.350	-	260	98	92	14,6	12,7
180	90	**753 901 073**	-	1.530	1	245	105	79	16,4	8,2
180	110	**753 901 074**	-	1.720	1	270	105	82	16,4	10,0
180	125	**753 901 091**	4	1.753	-	245	105	87	16,4	11,4
180	140	**753 901 075**	-	1.980	1	270	105	92	16,4	12,7
180	160	**753 901 033**	4	2.044	1	278	105	98	16,4	14,6
200	140	**753 901 066**	-	2.310	1	275	112	92	18,2	12,7
200	160	**753 901 092**	4	2.472	-	275	112	98	18,2	14,6
200	180	**753 901 034**	5	2.580	1	272	112	105	18,2	16,4
225	140	**753 901 067**	-	2.900	1	295	120	92	20,5	12,7
225	160	**753 901 096**	4	3.118	-	295	120	98	20,5	14,6
225	180	**753 901 095**	4	3.277	-	272	120	115	20,5	16,4
225	200	**753 901 094**	3	3.538	-	272	130	115	20,5	18,2
250	160	**753 901 000**	7	2.385	-	300	140	100	22,7	14,6
250	180	**753 901 068**	-	4.050	1	295	130	105	22,7	16,4
250	200	**753 901 001**	6	2.385	-	315	130	112	22,7	18,2
250	225	**753 901 002**	6	2.385	-	332	130	120	22,7	20,5
280	200	**753 901 098**	-	6.850	1	333	139	112	25,4	18,2
280	225	**753 901 099**	-	6.090	-	335	139	120	25,4	20,5
280	250	**753 901 003**	5	2.385	1	340	139	130	25,4	22,7
315	200	**753 901 004**	2	2.385	1	380	180	134	28,6	18,2
315	225	**753 901 097**	4	7.790	-	365	150	120	28,6	20,5
315	250	**753 901 005**	4	2.385	1	365	150	130	28,6	22,7
315	280	**753 901 012**	-	8.800	1	365	150	139	28,6	25,4
355	250	**753 901 013**	-	9.100	1	390	165	130	32,2	22,7
355	280	**753 901 014**	-	9.500	3	390	165	139	32,2	25,4



d [mm]	d1 [mm]	Code	GP	kg	SID	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]	
355	315	**753 901 015**	-	9.900	3	390	165	150	32,2	28,6	
400	280	**753 901 016**	-	10.420	3	415	180	139	36,3	25,4	
400	315	**753 901 017**	-	11.130	1	415	180	150	36,3	28,6	
400	355	**753 901 018**	-	11.600	3	420	180	165	36,3	32,2	
450	280	**753 901 019**	-	16.200	3	389	195	139	25,4	40,9	
450	315	**753 901 020**	-	16.700	3	390	195	150	28,6	40,9	
450	355	**753 901 022**	-	17.500	3	393	195	164	32,2	40,9	
450	400	**753 901 024**	-	18.500	3	395	195	179	36,3	40,9	
500	315	**753 901 025**	-	21.900	3	422	212	150	28,6	45,4	
500	355	**753 901 026**	-	22.600	3	424	212	164	32,2	45,4	
500	400	**753 901 027**	-	23.600	3	426	212	179	36,3	45,4	
500	450	**753 901 029**	-	25.100	3	428	212	195	40,9	45,4	
560	355	**753 901 030**	-	30.100	3	459	230	164	32,2	50,8	
560	400	**753 901 039**	-	31.000	3	461	230	179	36,3	50,8	
560	450	**753 901 040**	-	32.400	3	463	230	195	40,9	50,8	
560	500	**753 901 043**	-	34.100	3	466	230	212	45,4	50,8	
630	400	**753 901 044**	-	41.900	3	502	250	179	36,3	57,2	
630	450	**753 901 045**	-	43.100	3	503	250	195	40,9	57,2	
630	500	**753 901 049**	-	44.700	3	506	250	212	45,4	57,2	
630	560	**753 901 050**	-	46.800	3	506	250	230	50,8	57,2	

PF 2 51 301

53 90 08

Reducer LS

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water

d [mm]	d1 [mm]	Code	GP	kg	SID	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
90	63	**753 900 872**	-	0.216	1	182	79	70	5,4	3,8
90	75	**753 900 870**	40	0.202	1	185	79	70	5,4	4,5
110	63	**753 900 877**	-	0.326	-	185	82	63	6,6	3,8
110	90	**753 900 876**	8	0.650	-	185	82	79	6,6	5,4
125	63	**753 900 882**	-	0.610	3	200	87	63	7,4	3,8
125	90	**753 900 881**	8	0.700	-	200	87	79	7,4	5,4
125	110	**753 900 880**	8	0.810	1	200	87	82	7,4	6,6
140	75	**753 900 886**	-	0.560	1	230	92	70	8,3	4,5
140	90	**753 900 887**	-	0.610	1	230	92	79	8,3	5,4
140	110	**753 900 884**	-	0.660	-	230	92	82	8,3	6,6
140	125	**753 900 885**	12	0.712	1	235	92	87	8,3	7,4
160	90	**753 900 888**	10	0.752	-	248	98	79	9,5	5,4
160	110	**753 900 890**	8	1.280	-	245	98	82	9,5	6,6
160	125	**753 900 889**	8	1.380	-	245	98	87	9,5	7,4
160	140	**753 900 831**	10	1.380	-	260	98	92	9,5	8,3
180	90	**753 900 873**	-	1.010	1	245	105	79	10,7	5,4
180	110	**753 900 874**	-	1.600	1	270	105	82	10,7	6,6
180	125	**753 900 891**	4	1.710	1	245	105	87	10,7	7,4
180	140	**753 900 875**	-	1.720	1	270	105	92	10,7	8,3
180	160	**753 900 832**	-	2.100	-	278	105	98	10,7	9,5
200	140	**753 900 866**	-	1.800	-	275	112	92	11,9	8,3
200	160	**753 900 892**	4	2.370	-	275	112	98	11,9	9,5
200	180	**753 900 893**	4	2.580	-	272	112	105	11,9	10,7
225	140	**753 900 867**	-	1.450	-	295	120	92	13,4	8,3
225	160	**753 900 896**	4	2.980	1	295	120	98	13,4	9,5
225	180	**753 900 895**	4	3.160	1	272	120	115	13,4	10,7
225	200	**753 900 894**	3	3.750	-	272	130	115	13,4	11,9
250	160	**753 900 800**	7	2.850	1	300	140	100	14,8	9,5
250	180	**753 900 868**	-	3.100	3	295	130	105	14,8	10,7
250	200	**753 900 801**	6	3.210	1	315	130	112	14,8	11,9
250	225	**753 900 802**	6	2.385	1	332	130	120	14,8	13,4
280	200	**753 900 898**	-	3.800	1	333	139	112	16,6	11,9
280	225	**753 900 899**	-	4.100	1	335	139	120	16,6	13,4
280	250	**753 900 803**	5	2.385	1	340	139	130	16,6	14,8
315	200	**753 900 804**	2	6.200	-	380	180	134	18,7	11,9
315	225	**753 900 807**	4	6.200	1	365	150	120	18,7	13,4
315	250	**753 900 805**	4	6.420	1	365	150	130	18,7	14,8
315	280	**753 900 806**	4	5.940	1	365	150	139	18,7	16,6
355	250	**753 900 808**	-	5.270	1	390	165	130	21,1	14,8
355	280	**753 900 809**	-	5.830	3	390	165	139	21,1	16,6
355	315	**753 900 810**	-	7.240	1	390	165	150	21,1	18,7
400	280	**753 900 811**	-	7.930	3	415	180	139	23,7	16,6
400	315	**753 900 812**	2	8.480	-	415	180	150	23,7	18,7
400	355	**753 900 813**	-	9.620	1	420	180	165	23,7	21,1
450	280	**753 900 814**	-	11.500	3	389	195	139	26,7	16,6
450	315	**753 900 815**	-	11.600	3	390	195	150	26,7	18,7
450	355	**753 900 816**	-	11.900	3	393	195	164	26,7	21,1
450	400	**753 900 817**	-	12.700	3	395	195	179	26,7	23,7
500	315	**753 900 818**	-	15.500	3	422	212	150	29,7	18,7
500	355	**753 900 819**	-	15.700	3	424	212	164	29,7	21,1
500	400	**753 900 820**	-	16.200	3	426	212	179	29,7	23,7
500	450	**753 900 821**	-	17.000	3	428	212	195	29,7	26,7
560	355	**753 900 822**	-	21.400	3	459	230	164	33,2	21,1
560	400	**753 900 823**	-	21.700	3	461	230	179	33,2	23,7
560	450	**753 900 824**	-	22.300	3	463	230	195	33,2	26,7
560	500	**753 900 825**	-	23.200	3	466	230	212	33,2	29,7
630	400	**753 900 826**	-	29.700	3	502	250	179	37,4	23,7
630	450	**753 900 827**	-	30.100	3	503	250	195	37,4	26,7
630	500	**753 900 828**	-	30.800	3	506	250	212	37,4	29,7
630	560	**753 900 829**	-	31.900	3	506	250	230	37,4	33,3

PF 2 51 301

53 96 10

Cap LS

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water

* Fabricated part using pipe

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	e [mm]
20	**753 961 006**	50	0.009	-	52	52	3,0
25	**753 961 007**	50	0.013	-	52	52	3,0
32	**753 961 008**	50	0.017	-	54	54	3,0
40	**753 961 009**	50	0.031	-	57	57	3,7
50	**753 961 010**	30	0.050	-	63	63	4,6
63	**753 961 011**	24	0.085	-	65	65	5,8
75	**753 961 012**	40	0.145	-	80	72	6,8
90	**753 961 013**	18	0.240	-	90	81	8,2
110	**753 961 014**	12	0.387	-	98	86	10,0
125	**753 961 015**	12	0.546	-	105	92	11,4
140	**753 961 016**	-	0.835	1	136	92	12,7
160	**753 961 017**	8	1.026	-	120	102	14,6
180	**753 961 018**	10	1.369	-	128	107	16,4
200	**753 961 019**	5	1.839	-	138	115	18,2
225	**753 961 020**	5	2.500	-	148	122	20,5
250	**753 961 021**	4	3.927	-	205	130	22,7
280	**753 960 922**	2	5.344	1	235	139	25,4
315	**753 960 923**	2	7.176	-	255	150	28,6
355	**753 960 924**	-	9.780	1	280	165	32,2
400	**753 960 925**	-	13.370	1	310	180	36,3
*450	**753 960 926**	-	13.370	3	275	195	40,9
*500	**753 960 927**	-	13.370	3	297	212	45,4
*560	**753 960 928**	-	13.370	3	325	230	50,8
*630	**753 960 929**	-	13.370	3	355	250	57,2

PF 2 51 301

53 96 08

Cap LS

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water

* Fabricated part using pipe

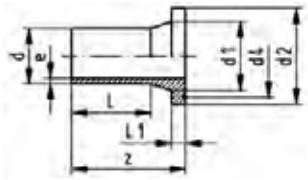
d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	e [mm]
50	**753 960 810**	-	0.045	3	70	55	3,0
63	**753 960 811**	-	0.092	3	82	63	3,8
75	**753 960 812**	-	0.149	3	92	70	4,5
90	**753 960 813**	18	0.220	-	90	81	5,4
110	**753 960 814**	12	0.350	-	98	86	6,6
125	**753 960 815**	12	0.520	-	105	92	7,4
140	**753 960 816**	12	0.522	1	136	92	8,3
160	**753 960 817**	8	0.990	-	120	102	9,5
180	**753 960 818**	10	1.360	-	128	107	10,7
200	**753 960 819**	5	1.880	-	138	115	11,9
225	**753 960 820**	5	2.420	-	148	122	13,4
250	**753 960 821**	4	2.547	1	205	130	14,8
280	**753 960 822**	2	3.523	1	235	139	16,6
315	**753 960 823**	2	4.758	1	255	150	18,7
355	**753 960 824**	-	6.510	-	280	165	21,1
400	**753 960 825**	-	9.330	1	310	180	23,7
*450	**753 960 826**	-	9.330	3	265	195	26,7
*500	**753 960 827**	-	9.330	3	287	212	29,7
*560	**753 960 828**	-	9.330	3	310	230	33,2
*630	**753 960 829**	-	9.330	3	340	250	37,4

PF 2 51 301

53 80 10

Flange Adaptor LS

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Flat gasket no. 45 44 01
- Jointing face: serrated
- Counterpart: flat or serrated



* With welded pipes

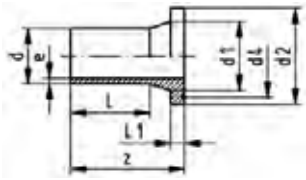
d [mm]	Code	GP	kg	SID	z [mm]	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	e [mm]
20	**753 801 006**	50	0.060	-	85	27	45	41	7	1,9
25	**753 801 007**	-	0.060	1	85	33	58	41	9	2,3
32	**753 801 008**	-	0.060	-	85	40	68	44	10	2,9
40	**753 801 009**	10	0.085	-	85	50	78	49	11	3,7
50	**753 801 010**	10	0.126	-	105	61	88	55	12	4,6
63	**753 801 011**	12	0.185	-	100	75	102	65	14	5,8
75	**753 801 012**	12	0.305	-	125	89	122	75	16	6,8
90	**753 801 013**	12	0.471	-	140	105	138	85	17	8,2
110	**753 801 014**	8	0.722	-	160	125	158	90	18	10,0
125	**753 801 015**	4	0.922	-	170	132	158	95	25	11,4
140	**753 801 016**	12	1.319	-	200	155	188	92	25	12,7
160	**753 801 017**	6	1.675	-	200	175	212	110	25	14,6
180	**753 801 018**	2	1.986	-	200	180	212	115	30	16,4
200	**753 801 019**	2	3.420	-	200	232	268	120	32	18,2
225	**753 801 020**	4	3.625	-	200	235	268	130	32	20,5
250	**753 801 001**	6	5.817	-	220	285	320	130	35	22,7
280	**753 800 902**	5	8.493	-	220	291	320	139	35	25,4
315	**753 800 903**	4	11.211	-	230	335	370	150	35	28,6
355	**753 800 904**	-	10.400	1	250	373	430	165	40	32,2
400	**753 800 905**	-	14.600	1	280	427	482	180	46	36,3
*450	**753 800 906**	-	14.600	3	333	514	585	195	60	40,9
*500	**753 800 907**	-	14.600	3	350	530	585	212	60	45,4
*560	**753 800 908**	-	14.600	3	365	615	684	230	60	50,8
*630	**753 800 909**	-	14.600	3	385	642	684	250	60	57,2

PF 2 51 301

53 80 08

Flange Adaptor LS

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- Flat gasket no. 45 44 01
- Jointing face: serrated
- Counterpart: flat or serrated



* With welded pipes

d [mm]	Code	GP	kg	SID	z [mm]	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	e [mm]
90	**753 800 813**	20	0.376	-	140	105	138	85	17	5,4
110	**753 800 814**	8	0.555	-	160	125	158	90	18	6,6
125	**753 800 815**	8	0.675	-	170	132	158	95	25	7,4
140	**753 800 816**	12	0.967	-	200	155	188	92	25	8,3
160	**753 800 817**	6	1.258	-	200	175	212	110	25	9,5
180	**753 800 818**	-	1.386	-	200	180	212	115	30	10,7
200	**753 800 819**	2	2.448	-	200	232	268	120	32	11,9
225	**753 800 820**	4	2.750	-	200	235	268	130	32	13,4
250	**753 800 821**	6	4.071	-	220	285	320	130	35	14,8
280	**753 800 802**	5	5.610	-	220	291	320	139	35	16,6
315	**753 800 803**	4	7.587	1	230	335	370	150	35	18,7
355	**753 800 804**	2	7.300	1	250	373	430	165	40	21,1
400	**753 800 805**	-	10.300	-	280	427	482	180	46	23,7
*450	**753 800 806**	-	10.300	3	335	514	585	195	46	26,7
*500	**753 800 807**	-	10.300	3	352	530	585	212	46	29,7
*560	**753 800 808**	-	10.300	3	370	615	685	230	50	33,2
*630	**753 800 809**	-	10.300	3	390	642	685	250	50	37,4

PF 2 51 301

Spigot Fittings for Butt Fusion PE 100

53 02 10

Bend 90°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water

PF 2 51 301

d [mm]	Code	kg	SID	z [mm]	r [mm]	e [mm]
250	**753 021 021**	6.270	1	285	255	22,7
280	**753 021 022**	8.580	3	290	260	25,4
315	**753 021 023**	9.830	1	340	300	28,6
355	**753 021 024**	17.200	1	335	300	32,3
400	**753 021 025**	23.000	1	349	300	36,3
450	**753 021 026**	38.300	3	450	400	40,9
500	**753 021 027**	47.300	3	450	400	45,4

53 02 08

Bend 90°

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water

PF 2 51 301

d [mm]	Code	kg	SID	z [mm]	r [mm]	e [mm]
250	**753 020 821**	3.940	3	285	240	14,2
280	**753 020 822**	5.660	3	290	280	15,9
315	**753 020 823**	6.680	1	335	300	17,9
355	**753 020 824**	11.300	1	340	300	20,1
400	**753 020 825**	15.700	1	345	300	22,7
450	**753 020 826**	24.900	3	450	400	25,5
500	**753 020 827**	30.600	3	450	400	28,3

53 22 10

Tee 90, equal

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water

PF 2 51 301

d [mm]	Code	kg	SID	z [mm]	L [mm]	L1 [mm]	e [mm]
250	**753 221 021**	9.860	3	232	465	70	22,7
280	**753 221 022**	13.750	3	270	540	82	25,4
315	**753 221 023**	18.300	1	268	530	75	28,6
355	**753 221 024**	30.500	1	352	665	97	32,2
400	**753 221 025**	39.000	1	337	682	100	36,3
450	**753 221 026**	45.000	3	450	900	130	40,9
500	**753 221 027**	75.500	3	450	900	130	45,4

53 22 08

Tee 90, equal

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water

PF 2 51 301

d [mm]	Code	GP	kg	SID	z [mm]	L [mm]	L1 [mm]	e [mm]
250	**753 220 821**	1	6.900	3	232	465	70	14,8
280	**753 220 822**	1	10.100	3	268	536	80	16,6
315	**753 220 823**	1	14.000	1	263	530	75	18,7
355	**753 220 824**	1	22.750	1	330	658	95	21,1
400	**753 220 825**	1	30.500	1	345	690	104	23,7
450	**753 220 826**	-	45.000	1	450	890	130	26,7
500	**753 220 827**	-	52.600	1	445	890	130	29,7

53 22 10

Tee 90°, reduced

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water

PF 2 51 301

d [mm]	d1 [mm]	Code	GP	kg	SID	z [mm]	L [mm]	L1 [mm]	e [mm]
250	110	**753 221 031**	1	9.500	-	190	435	134	10
250	160	**753 221 032**	1	9.700	1	213	440	115	14,6

53 22 08

Tee 90°, reduced

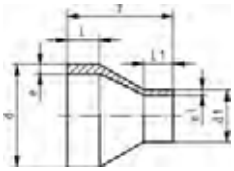
- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water

PF 2 51 301

d [mm]	d1 [mm]	Code	GP	kg	SID	z [mm]	L [mm]	L1 [mm]	e [mm]
250	160	**753 220 832**	1	6.500	3	213	440	110	9,1

53 90 00

Reducer



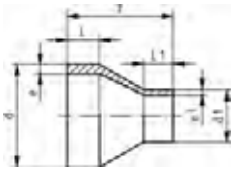
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Up to d 315 injection moulded
- d 355 and above machined

d [mm]	d1 [mm]	Code	kg	SID	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
250	160	**753 900 000**	2.260	3	170	60	50	22,7	14,6
250	180	**753 900 001**	2.450	1	175	60	55	22,7	16,4
250	200	**753 900 002**	2.450	1	180	60	60	22,7	18,2
250	225	**753 900 003**	2.890	1	180	65	65	22,7	20,5
280	200	**753 900 004**	3.540	3	205	70	50	25,4	18,2
280	225	**753 900 005**	3.660	3	200	70	50	25,4	20,5
280	250	**753 900 006**	3.880	3	200	70	60	25,4	22,7
315	200	**753 900 007**	4.740	3	225	80	50	28,6	20,5
315	225	**753 900 008**	4.980	1	230	80	55	28,6	20,5
315	250	**753 900 009**	5.260	1	230	80	60	28,6	22,7
315	280	**753 900 010**	5.500	3	222	80	70	28,6	25,4
355	225	**753 900 011**	4.700	3	245	90	55	32,2	20,5
355	250	**753 900 012**	4.400	1	245	90	60	32,2	22,7
355	280	**753 900 013**	4.100	1	245	90	70	32,2	25,4
355	315	**753 900 014**	3.700	1	245	90	80	32,2	28,6
400	225	**753 900 015**	6.800	3	260	95	60	36,3	20,5
400	250	**753 900 016**	6.800	3	260	95	70	36,3	40,2
400	280	**753 900 017**	6.200	3	260	95	70	36,3	40,2
400	315	**753 900 018**	5.300	3	260	95	80	36,3	40,2
400	355	**753 900 019**	4.800	1	260	95	90	36,3	40,2
450	280	**753 900 020**	9.000	3	230	60	70	40,9	45,2
450	315	**753 900 021**	8.000	3	230	60	80	40,9	45,2
450	355	**753 900 022**	7.400	3	230	60	90	40,9	45,2
450	400	**753 900 023**	6.600	3	230	60	95	40,9	36,3
500	315	**753 900 024**	12.000	3	230	60	80	45,4	28,6
500	355	**753 900 025**	10.800	3	230	60	90	45,4	32,2
500	400	**753 900 026**	10.000	3	230	60	95	45,4	36,3
500	450	**753 900 027**	8.300	3	200	60	60	45,4	40,9

PF 2 51 301

53 90 28

Reducer



- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- Up to d 315 injection moulded
- d 355 and above machined

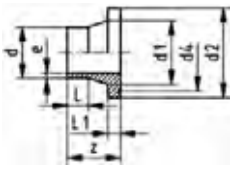
d [mm]	d1 [mm]	Code	kg	SID	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
250	160	**753 902 800**	1.000	3	170	60	50	14,8	9,5
250	180	**753 902 801**	1.690	3	175	60	55	14,8	10,7
250	200	**753 902 802**	1.820	3	180	60	60	14,8	11,9
250	225	**753 902 803**	2.030	1	180	65	65	14,8	13,4
280	200	**753 902 804**	2.440	3	205	70	50	16,6	11,9
280	225	**753 902 805**	2.560	3	200	70	50	16,6	13,4
280	250	**753 902 806**	2.640	3	200	70	60	16,6	14,8
315	200	**753 902 807**	3.360	3	225	80	50	18,7	11,9
315	225	**753 902 808**	3.500	3	230	80	55	18,7	13,4
315	250	**753 902 809**	3.580	3	230	80	60	18,7	14,8
315	280	**753 902 810**	3.650	3	222	80	70	18,7	16,6
355	225	**753 902 811**	4.700	3	245	90	55	21,1	13,4
355	250	**753 902 812**	4.400	3	245	90	60	21,1	14,8
355	280	**753 902 813**	4.100	1	245	90	70	21,1	16,6
355	315	**753 902 814**	3.700	1	245	90	80	21,1	18,7
400	225	**753 902 815**	4.600	3	260	95	60	23,7	13,4
400	250	**753 902 816**	4.400	3	260	95	70	23,7	14,8
400	280	**753 902 817**	4.400	3	260	95	70	23,7	16,6
400	315	**753 902 818**	3.520	3	260	95	80	23,7	18,7
400	355	**753 902 819**	3.320	1	260	95	90	23,7	21,1
450	280	**753 902 820**	6.340	3	230	60	70	26,7	16,6
450	315	**753 902 821**	5.400	3	230	60	80	26,7	18,7
450	355	**753 902 822**	5.000	3	230	60	90	26,7	21,1
450	400	**753 902 823**	4.400	3	230	60	95	26,7	23,7
500	315	**753 902 824**	8.100	3	230	60	80	29,7	18,7
500	355	**753 902 825**	7.300	3	230	60	90	29,7	21,1
500	400	**753 902 826**	7.080	1	230	60	95	29,7	23,7
500	450	**753 902 827**	5.500	3	200	60	60	29,7	26,7
560	400	**753 902 828**	9.900	3	230	60	95	33,2	23,7
560	450	**753 902 829**	8.600	3	200	60	60	33,2	26,7
560	500	**753 902 830**	7.600	3	200	60	60	33,2	29,7
630	400	**753 902 831**	15.100	3	230	60	95	37,4	23,7
630	450	**753 902 832**	13.700	3	200	60	60	37,4	26,7
630	500	**753 902 833**	12.000	3	200	60	60	37,4	29,7
630	560	**753 902 834**	9.800	3	200	60	60	37,4	33,2

PF 2 51 301

53 82 10

Flange Adaptor

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water



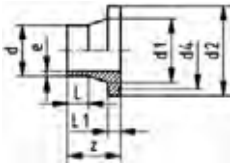
PF 2 51 301

d [mm]	Code	kg	SID	z [mm]	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	e [mm]
250	**753 821 021**	3.000	1	120	285	320	25	56	14,8
280	**753 821 022**	2.800	3	120	291	320	25	68	16,6
315	**753 821 023**	3.760	1	120	335	370	25	60	18,7
355	**753 821 024**	5.320	1	120	373	430	30	55	21,1
400	**753 821 025**	7.750	1	140	427	482	33	67	23,7
450	**753 821 026**	12.550	1	140	514	585	46	60	26,7
500	**753 821 027**	11.780	1	140	530	585	46	45	29,7

53 82 08

Flange Adaptor

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water



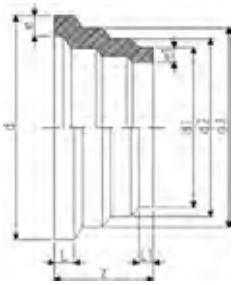
PF 2 51 301

d [mm]	Code	kg	SID	d1 [mm]	D2 [mm]	d2 [mm]	z [mm]	L [mm]	L1 [mm]	e [mm]
250	**753 820 821**	2.160	1	285	320	320	130	25	60	14,2
280	**753 820 822**	1.980	1	291	320	320	130	35	70	25,4
315	**753 820 823**	2.700	1	335	370	370	138	25	73	17,9
355	**753 820 824**	3.660	1	373	430	430	120	30	30	20,1
400	**753 820 825**	5.150	1	427	482	482	120	33	42	22,7
450	**753 820 826**	9.070	1	514	585	585	120	46	35	25,5
500	**753 820 827**	7.870	1	530	585	585	120	46	24	28,3
560	**753 820 828**	12.310	1	615	685	685	120	50	20	31,7
630	**753 820 829**	10.520	1	642	685	685	120	50	30	35,7

53 92 10

Reducer

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water



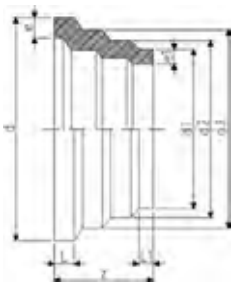
PF 2 51 301

d [mm]	d1 [mm]	Code	GP	kg	SID	D2 [mm]	d2 [mm]	d3 [mm]	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
315	225	**753 900 997**	2	2.650	1	250	250	280	130	24	19	28,6	20,5
450	315	**753 921 031**	2	7.210	3	355	355	400	165	25	20	40,9	28,6

53 92 08

Reducer

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water



PF 2 51 301

d [mm]	d1 [mm]	Code	GP	kg	SID	D2 [mm]	d2 [mm]	d3 [mm]	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
315	225	**753 900 897**	2	1.900	1	250	250	280	132	25	20	17,9	12,8
450	315	**753 920 831**	2	5.170	1	355	355	400	165	25	20	25,5	17,9
630	450	**753 920 832**	-	9.950	3	500	500	560	196	37	21	35,7	25,5

Reducer excentric

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water

PF 2 51 301

d [mm]	d1 [mm]	Code	kg	SID	z [mm]	e [mm]	e1 [mm]
250	160	**753 931 031**	1.200	3	155	22,8	14,6
355	250	**753 931 098**	3.500	3	200	32,3	22,8

Reducer, excentric

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water

PF 2 51 301

d [mm]	d1 [mm]	Code	kg	SID	z [mm]	e [mm]	e1 [mm]
250	160	**753 930 831**	1.000	3	155	14,2	9,1
355	250	**753 930 898**	2.300	3	200	20,1	14,2